

CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

FINAL

Merced to Fresno Section
Project EIR/EIS

Volume III:

Section A1 – Alignment Plans

UPRR/SR 99 Alternative with Ave 24 Wye

April 2012



CALIFORNIA
High-Speed Rail Authority



U.S. Department of Transportation
Federal Railroad Administration



| | | | | | |
|------|----|-----|-----|-------------|---------------------------|
| | | | | | DESIGNED BY A. SHIELDS |
| | | | | | DRAWN BY T. WALTZ |
| | | | | | CHECKED BY A. BOONE |
| | | | | | IN CHARGE A. BOONE |
| | | | | | DATE 07/27/2011 |
| DATE | BY | CHK | APP | DESCRIPTION | |


RECORD SET

15% DESIGN


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CONSTRUCTION



Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811



| | | | |
|---|---|--|---------------------------|
|  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 ALIGNMENT AVENUE 24 INDEX OF DRAWINGS SHEET 1 OF 2 | | CONTRACT NO. HSR06-007 |
| | | | DRAWING NO. T0010-A |
| | | | SCALE NONE |
| | | | SHEET NO. ### OF ### |

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| SHT NO. | DWG NO. | DRAWING TITLE LINE 3 | DRAWING TITLE LINE 4 | DRAWING TITLE LINE 5 | DRAWING TITLE LINE 6 |
|---------|---------|--|-------------------------|-------------------------|-------------------------------|
| | T2403-A | UPRR/SR 99 WCDO - MAIN LINE | AVENUE 24 | PLAN AND PROFILE | STA 1335+00 TO STA 1390+00 |
| | T2404-A | UPRR/SR 99 WCDO - MAIN LINE | AVENUE 24 | PLAN AND PROFILE | STA 1390+00 TO STA 1445+00 |
| | T2405-A | UPRR/SR 99 WCDO - MAIN LINE | AVENUE 24 | PLAN AND PROFILE | STA 1445+00 TO STA 1500+00 |
| | T2406-A | UPRR/SR 99 WCDO - MAIN LINE | AVENUE 24 | PLAN AND PROFILE | STA 1500+00 TO STA 1555+00 |
| | T2407-A | UPRR/SR 99 WCDO - MAIN LINE | AVENUE 24 | PLAN AND PROFILE | STA 1555+00 TO STA 1599+10.41 |
| | | | | | |
| | T2410-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 148+82.51 TO STA 155+00 |
| | T2411-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 155+00 TO STA 210+00 |
| | T2412-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 210+00 TO STA 265+00 |
| | T2413-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 265+00 TO STA 320+00 |
| | T2414-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 320+00 TO STA 375+00 |
| | T2415-A | UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 375+00 TO STA 382+24.68 |
| | | | | | |
| | T2421-A | UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 524+67 TO STA 580+00 |
| | T2422-A | UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 580+00 TO STA 635+00 |
| | T2423-A | UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 635+00 TO STA 690+00 |
| | T2424-A | UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION | AVENUE 24 | PLAN AND PROFILE | STA 690+00 TO STA 738+88.07 |

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| | | | | | | | | | | | |
|-----|----------|----|-----|-----|--|---------------------------|--|---|--|---|---------------------------|
| | | | | | | DESIGNED BY A. SHIELDS | RECORD SET 15% DESIGN SUBMITTAL NOT FOR CONSTRUCTION | <div><div>AECOM</div><div>Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811</div><div>CH2MHILL</div></div> | <div><div></div><div>CALIFORNIA HIGH-SPEED RAIL AUTHORITY</div></div> | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO UPRR/SR 99 ALIGNMENT AVENUE 24 INDEX OF DRAWINGS SHEET 2 OF 2 | CONTRACT NO. HSR06-007 |
| | | | | | | DRAWN BY T. WALTZ | | | | | DRAWING NO. T0011-A |
| | | | | | | CHECKED BY A. BOONE | | | | | SCALE NONE |
| | | | | | | IN CHARGE A. BOONE | | | | | SHEET NO. ### OF ### |
| | | | | | | DATE 07/27/2011 | | | | | |
| 1 | 02/17/12 | | | | | TRACK REALIGNMENT | | | | | |
| REV | DATE | BY | CHK | APP | | DESCRIPTION | | | | | |

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ABBREVIATIONS

ALIGNMENT

| HORIZONTAL | |
|------------|--|
| BC | BEGINNING OF CURVE |
| CS | CURVE TO SPIRAL |
| EC | END OF CURVE |
| PC | POINT OF CURVE |
| PCC | POINT OF COMPOUND CIRCULAR CURVES |
| PCS | POINT OF CURVE TO SPIRAL |
| PF | POINT OF FROG |
| PI | POINT OF INTERSECTION OF TWO TANGENTS |
| PITO | POINT OF INTERSECTION OF TURNOUT |
| POC | POINT ON CURVE |
| POS | POINT ON SPIRAL |
| POT | POINT ON TANGENT |
| PRC | POINT OF REVERSE CURVES |
| PS | POINT OF SWITCH |
| PSC | POINT OF SPIRAL TO CURVE |
| PT | POINT OF TANGENCY |
| R | RADIUS OF CURVATURE IN FEET |
| SC | SPIRAL TO CURVE |
| SPO | POINT OF ORIGIN OF COMPOUND SPIRAL |
| SS | POINT OF SPIRAL TO SPIRAL |
| ST | SPIRAL TO TANGENT |
| TS | TANGENT TO SPIRAL |
| V | DESIGN VELOCITY IN MILES PER HOUR |
| VERTICAL | |
| PVC | POINT OF VERTICAL CURVE (BEGINNING OF CURVE) |
| PVI | POINT OF VERTICAL INTERSECTION (OF TANGENTS) |
| PVT | POINT OF VERTICAL TANGENCY (ENDING OF CURVE) |
| VC | VERTICAL CURVE |

MISCELLANEOUS

| | |
|----------|--------------------------|
| BEG | BEGIN |
| BLVD | BOULEVARD |
| CL | CENTER LINE |
| CLR | CENTERLINE, CLASS |
| CLR | CLEAR |
| COL | COLUMN |
| DWG | DRAWING |
| EQ | EQUATION |
| EXIST(E) | EXISTING |
| IN | INCH |
| LT | LEFT |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| N | NORTH |
| NB | NORTH BOUND |
| NTS | NOT TO SCALE |
| OG | ORIGINAL GROUND |
| O/H OH | OVER HEAD |
| PG&E | PACIFIC GAS & ELECTRIC |
| PGL | PROFILE GRADE LINE |
| RR | RAILROAD |
| RD | ROAD |
| R/W ROW | RIGHT OF WAY |
| RT | RIGHT |
| SS | SANITARY SEWER |
| SHT | SHEET |
| ST | STREET |
| STD | STANDARD |
| SD | STORM DRAIN |
| STRUCT | STRUCTURE |
| T | TELEPHONE |
| | (OH) OVERHEAD LINE |
| | (UG) UNDERGROUND LINE |
| TOR | TOP OF RAIL |
| TK | TRACK |
| TO | TURNOUT |
| TYP | TYPICAL |
| TBD | TO BE DETERMINED |
| TF | TELECOMMUNICATIONS FIBER |
| | OPTIC |
| V VERT | VERTICAL |
| W | WATER, WEST |

SYMBOLS

| | |
|--|------------------------------------|
| | MATCH LINE |
| | HST TRACK |
| | PROPOSED HST RIGHT-OF-WAY |
| | FREIGHT/PASSENGER TRACK - EXISTING |
| | EXISTING RIGHT-OF-WAY |
| | EXISTING BRIDGE FEATURES |
| | RETAINING WALLS |
| | ORIGINAL GROUND |
| | GAS LINE (16") |
| | COMMUNICATION LINE |
| | WATER LINE |
| | FIBER OPTIC LINE |
| | ELECTRICAL LINE |
| | ELECTRICAL TOWER |
| | SEWER LINE |
| | STORM DRAIN LINE |
| | FUEL LINE |
| | TELEPHONE LINE |
| | PETROLEUM LINE (12") |
| | OVERHEAD |
| | NORTH ARRROW |
| | PVI |
| | POTENTIAL SOUND BARRIER |

NOTES:

- EXISTING ROADS TO BE GRADE SEPARATED OVER THE HIGH SPEED TRAIN (HST) RIGHT OF WAY ARE INDICATED IN THE ALIGNMENT PROFILE. ALL OTHER ROADS CROSSING THE PROPOSED HST TRACKS WILL BE CLOSED OR RELOCATED. SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.
- SEE STRUCTURE PLANS FOR LIMITS AND DETAILS OF VIADUCTS, STREAM CROSSINGS, RETAINING WALLS AND OTHER HST STRUCTURES.
- SEE ROADWAY PLANS FOR ROADWAY RELOCATIONS, GRADE SEPARATIONS, AND MODIFICATIONS TO STATE HIGHWAY FACILITIES.
- UTILITIES INDICATED ON THE PLANS ARE FOR REFERENCE ONLY. SEE "UTILITIES CONFLICT MEMO" FOR ADDITIONAL INFORMATION AND PROPOSED RELOCATION CONCEPTS.
- ROAD/LOCAL ACCESS DELINEATED FOR FURTHER EVALUATION. ADDITIONAL STUDIES WILL BE CONDUCTED DURING PRELIMINARY ENGINEERING PHASE (30% DESIGN) TO SUBSTANTIATE ITS INCLUSION OR EXCLUSION FROM THE PROPOSED IMPORVEMENTS.
- STANDALONE RADIO SITES WILL BE PROVIDED IN BETWEEN TRACTION POWER FACILITIES (SUBSTATIONS, SWITCHING STATIONS, AND PARALLELING STATIONS). SPACING OF THESE SITES WILL VARY BETWEEN 1-1/2 AND 3 MILES. ACCESS TO THESE SITES WILL BE PROVIDED AT THE NEAREST PUBLIC ROAD THAT CROSSES THE HIGH SPEED TRAIN ALIGNMENT.

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| REV | DATE | BY | CHK | APP | DESCRIPTION |

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| DESIGNED BY B. CHAN |
| DRAWN BY S. LEONG |
| CHECKED BY A. BOWE |
| IN CHARGE J. VALSECCHI |
| DATE 07/27/2011 |

RECORD SET
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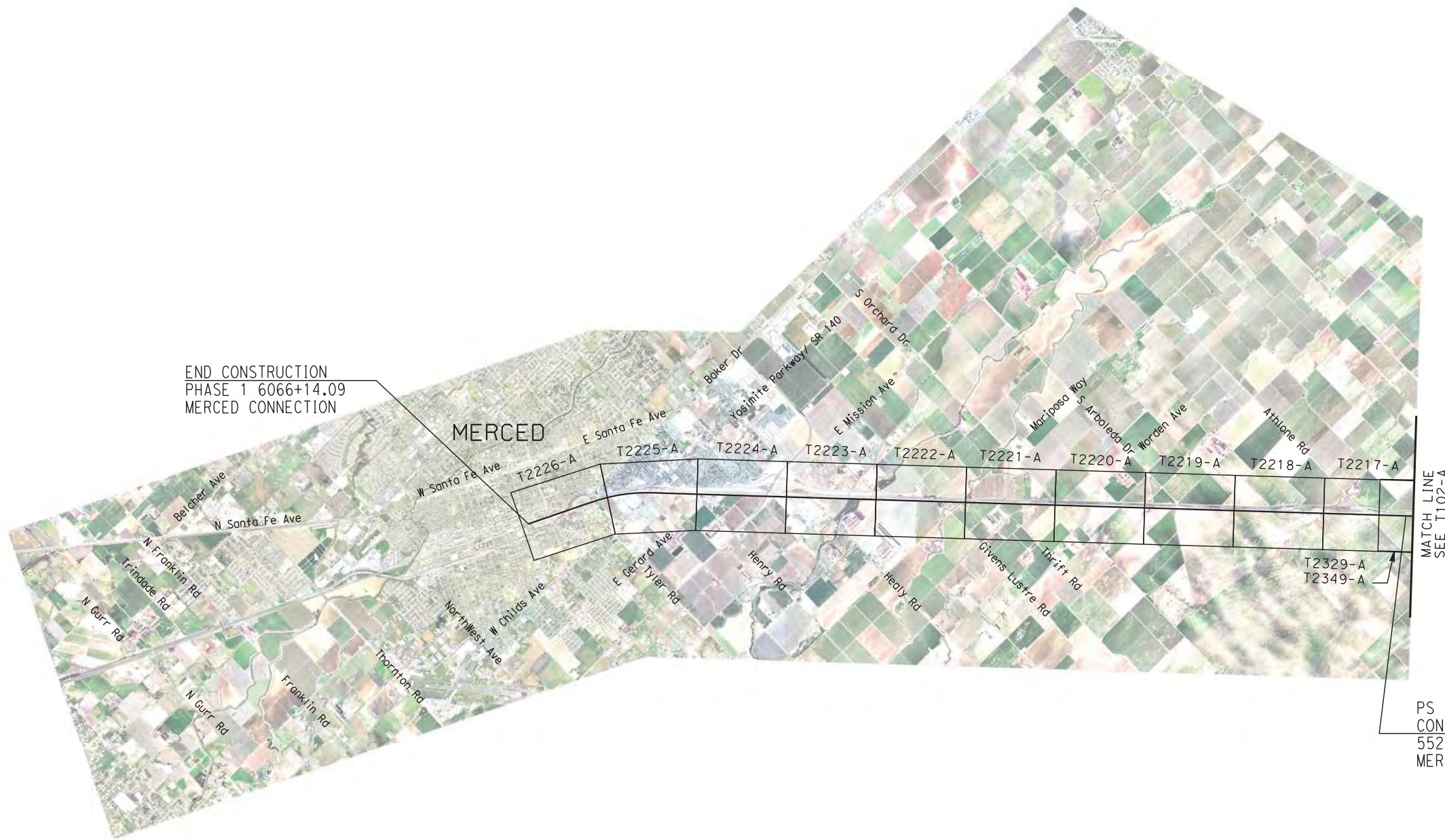
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
GENERAL

ABBREVIATIONS, SYMBOLS AND NOTES

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|---------------------------|
| CONTRACT NO. HSR06-007 |
| DRAWING NO. T0100-A |
| SCALE NO SCALE |
| SHEET NO. ### OF ### |

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END CONSTRUCTION
PHASE 1 6066+14.09
MERCED CONNECTION

MATCH LINE
SEE T102-A

PS 626+89.44 WYE NB
CONNECTION AVE 24=
5522+83.53
MERCED CONNECTION

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------------|----|-----|-----|-------------------|
| 1 | 12/12/2011 | AS | | | TRACK REALIGNMENT |

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
KEY MAP
SHEET 1 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0101-A
SCALE
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SHEET NO.
OF

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| 1 | 12/12/2011 | AS | | | TRACK REALIGNMENT |

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
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IN CHARGE
A. BOONE
DATE
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CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
KEY MAP
SHEET 2 OF 6

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

CONTRACT NO.
HSR06-007
DRAWING NO.
T0102-A
SCALE
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SHEET NO.
OF

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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| 1 | 12/12/2011 | AS | | | TRACK REALIGNMENT |
| REV | DATE | BY | CHK | APP | DESCRIPTION |

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

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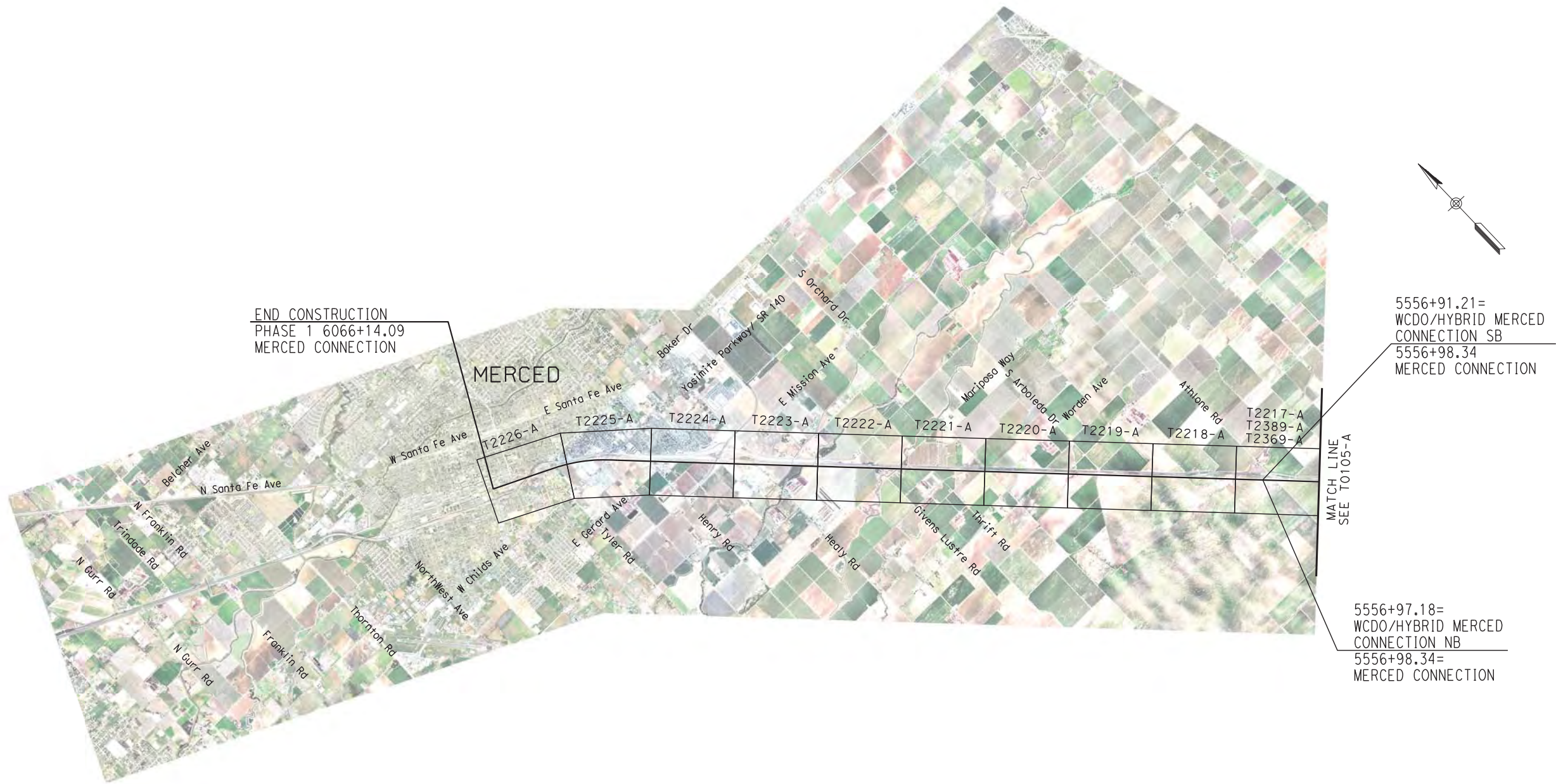


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
KEY MAP
SHEET 3 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0103-A
SCALE
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SHEET NO.
OF

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| 1 | 12/12/2011 | AS | | | TRACK REALIGNMENT |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

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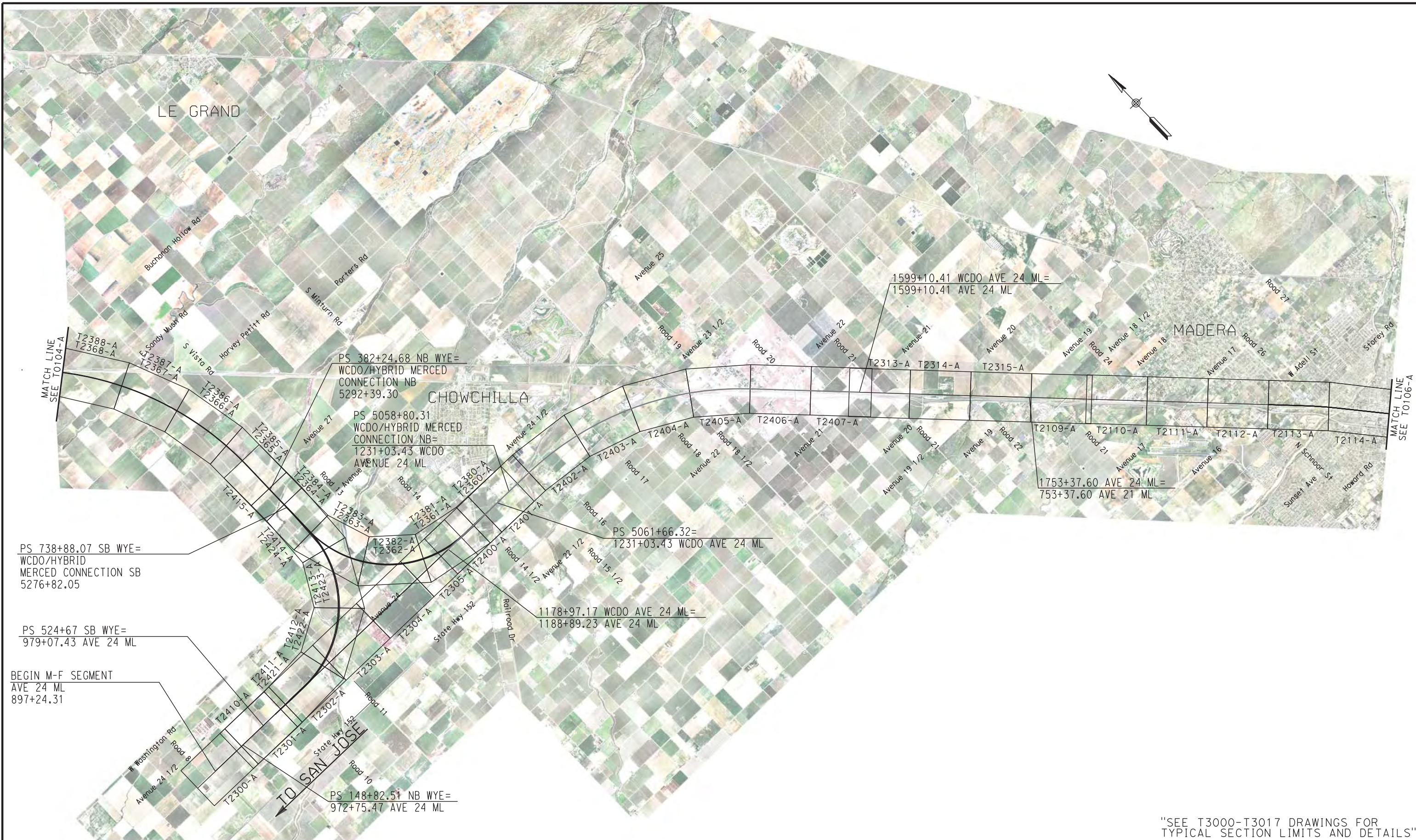
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO ALIGNMENT
AVENUE 24
KEY MAP
SHEET 4 OF 6

| |
|---------------------------|
| CONTRACT NO. HSR06-007 |
| DRAWING NO. T0104-A |
| SCALE NO SCALE |
| SHEET NO. ### OF ### |

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO ALIGNMENT
AVENUE 24
KEY MAP
SHEET 5 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0105-A
SCALE
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SHEET NO.
OF

"SEE T3000-T3017 DRAWINGS FOR
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| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|------------|----|-----|-----|-------------------|
| 1 | 12/12/2011 | AS | | | TRACK REALIGNMENT |

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A. SHIELDS
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO ALIGNMENT
AVENUE 24
KEY MAP
SHEET 6 OF 6

CONTRACT NO.
HSR06-007
DRAWING NO.
T0106-A
SCALE
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SHEET NO.
OF

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TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE AVE 24 SB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR225 | 250 | 50578.5 | 3.00 | 1.94 | 1000 | 1188+89.23 | 1599+10.41 | T2305-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE SB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR202 | 250 | 43000 | 4.00 | 1.81 | 1200 | 994+31.92 | 1039+69.06 | T2113-A |
| UPRR203 | 250 | 28000 | 6.00 | 2.93 | 2000 | 1549+79.74 | 1629+23.79 | T2123-A |
| UPRR206 | 250 | 42995.5 | 3.25 | 2.56 | 1199.87 | 1702+48.14 | 1736+38.82 | T2125-A |
| UPRR207 | 250 | 43000 | 3.25 | 2.56 | 1200 | 1852+76.45 | 1927+63.38 | T2129-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MERCED CONNECTION SB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR109 | 150 | 32000 | | | 220 | 4757+94.64 | 4796+82.87 | T2230-A |
| UPRR110 | 150 | 23992.86 | 1.25 | 2.50 | 220 | 4796+82.87 | 4779+61.82 | T2230-A |
| UPRR111 | 250 | 28016.5 | 6.00 | 2.93 | 2000 | 4907+26.62 | 4936+59.33 | T2205-A |
| UPRR112 | 250 | 28000 | 6.00 | 2.93 | 2000 | 5050+05.99 | 5108+56.20 | T2208-A |
| UPRR113 | 250 | 28000 | 6.00 | 2.93 | 2000 | 5124+54.02 | 5174+08.99 | T2209-A |
| UPRR114 | 250 | 28016.5 | 6.00 | 2.64 | 2000 | 5232+60.88 | 5291+48.79 | T2211-A |
| UPRR115 | 150 | 10000 | 6.00 | 3.00 | 1200 | 5981+82.99 | 6030+04.80 | T2225-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-SB CONNECTION AVE 24

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR128 | 150 | 32000 | | | 220 | 705+00 | 715+13.59 | T2340-A |
| UPRR129 | 150 | 24058.11 | 1.25 | 2.50 | 220 | 715+13.59 | 723+64.01 | T2341-A |
| UPRR130 | 150 | 10000 | 6.00 | 3.00 | 1200 | 752+83.46 | 921+72.46 | T2341-A |
| UPRR131 | 150 | 10100 | 6.00 | 2.91 | 1200 | 1062+85.33 | 1149+28.91 | T2347-A |
| UPRR132 | 150 | 32000 | | | 220 | 1181+72.58 | 1191+23.92 | T2349-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID CONNECTION SB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR238 | 150 | 32000 | | | 220 | 5058+80.31 | 5070+68.54 | T2380-A |
| UPRR239 | 150 | 24000 | 1.25 | 2.50 | 220 | 5070+68.54 | 5080+47.49 | T2380-A |
| UPRR240 | 145 | 10000 | 5.50 | 2.91 | 1000 | 5085+75.50 | 5253+02.51 | T2381-A |
| UPRR241 | 250 | 28000 | 6.00 | 2.93 | 2000 | 5318+28.63 | 5556+97.18 | T2385-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID MAIN LINE AVE 24 SB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR135 | 250 | 28000 | 6.00 | 2.92 | 2000 | 1268+26.03 | 1509+81.55 | T2401-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-SB CONNECTION AVE 24

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR243 | 150 | 32000 | | | 220 | 148+82.51 | 161+03.62 | T2410-A |
| UPRR244 | 150 | 20208.38 | 1.25 | 2.50 | 220 | 161+03.62 | 168+73.62 | T2411-A |
| UPRR245 | 150 | 10000 | 6.00 | 3.00 | 1200 | 179+43.82 | 348+32.82 | T2411-A |
| UPRR246 | 150 | 24000 | 1.25 | 2.50 | 220 | 363+61.57 | 372+10.33 | T2414-A |
| UPRR247 | 150 | 32000 | | | 220 | 372+10.33 | 382+24.68 | T2414-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE AVE 24 NB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR125 | 250 | 50595 | 3.00 | 1.94 | 1000 | 144+45.26 | 554+79.66 | T2305-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MAIN LINE NB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR102 | 250 | 43016.5 | 4.00 | 1.81 | 1200 | 994+31.92 | 1039+69.06 | T2113-A |
| UPRR103 | 250 | 27983.5 | 6.00 | 2.93 | 2000 | 1549+79.74 | 1629+23.79 | T2123-A |
| UPRR106 | 250 | 43013 | 3.25 | 2.56 | 1200 | 1702+48.14 | 1736+38.82 | T2209-A |
| UPRR107 | 250 | 43016.5 | 3.25 | 2.56 | 1200 | 1852+76.45 | 1927+63.38 | T2225-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR MERCED CONNECTION NB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR109 | 150 | 32000 | | | 220 | 4757+94.64 | 4796+82.87 | T2230-A |
| UPRR110 | 150 | 23992.86 | 1.25 | 2.50 | 220 | 4796+82.87 | 4779+61.82 | T2230-A |
| UPRR211 | 250 | 28000 | 6.00 | 2.93 | 2000 | 4907+26.62 | 4936+59.33 | T2205-A |
| UPRR212 | 250 | 28016.5 | 6.00 | 2.93 | 2000 | 5050+05.99 | 5108+56.20 | T2208-A |
| UPRR213 | 250 | 28016.5 | 6.00 | 2.93 | 2000 | 5124+54.02 | 5174+08.99 | T2209-A |
| UPRR214 | 250 | 28000 | 6.00 | 2.93 | 2000 | 5232+60.88 | 5291+48.79 | T2211-A |
| UPRR215 | 150 | 10016.5 | 6.00 | 3.00 | 1200 | 5981+82.99 | 6030+04.80 | T2225-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE - NB CONNECTION AVE 21

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR228 | 150 | 32000 | | | 220 | 105+00.00 | 116+88.27 | T2320-A |
| UPRR229 | 150 | 23987.95 | 1.25 | 2.50 | 220 | 116+88.27 | 126+67.10 | T2320-A |
| UPRR230 | 150 | 10000 | 6.00 | 3.00 | 1200 | 180+94.22 | 349+83.22 | T2321-A |
| UPRR231 | 145 | 10000 | 5.50 | 2.91 | 1000 | 494+11.92 | 582+22.03 | T2327-A |
| UPRR232 | 150 | 24020.25 | 1.25 | 2.50 | 220 | 605+22.57 | 615+02.00 | T2329-A |
| UPRR233 | 150 | 32000 | | | 220 | 615+02.00 | 626+89.44 | T2329-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID CONNECTION NB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR138 | 150 | 32000 | | | 220 | 5061+66.32 | 5070+80.46 | T2360-A |
| UPRR139 | 150 | 24000 | 1.25 | 2.50 | 220 | 5071.80.46 | 5086+34.11 | T2360-A |
| UPRR140 | 145 | 10000 | 5.50 | 2.91 | 1000 | 5086+34.11 | 5253+61.04 | T2361-A |
| UPRR141 | 250 | 28016.5 | 6.00 | 2.93 | 2000 | 5318+09.77 | 5556+91.21 | T2365-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WCDO/HYBRID MAIN LINE AVE 24 NB

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR235 | 250 | 28016.5 | 6.00 | 2.92 | 2000 | 1268+26.03 | 1509+81.55 | T2401-A |

TRACK ALIGNMENT CURVE DATA SUMMARY TABLE - UPRR WYE-NB CONNECTION AVE 24

| CURVE | DESIGN SPEED (V) (MPH) | RADIUS (R) (FT) | ACTUAL SUPERELEVATION (Ea) (IN) | UNBALANCED SUPERELEVATION (Eu) (IN) | SPIRAL LENGTH (Ls) (FT) | BEGIN STATION | END STATION | BEGIN DRAWING |
|---------|---------------------------|--------------------|---------------------------------------|---|-------------------------------|------------------|----------------|------------------|
| UPRR143 | 150 | 32000 | | | 220 | 524+67 | 534+80.96 | T2421-A |
| UPRR144 | 150 | 24028.48 | 1.25 | 2.50 | 220 | 534+80.96 | 543+30.17 | T2421-A |
| UPRR145 | 145 | 10000 | 5.50 | 2.91 | 1000 | 548+58.65 | 715+47.65 | T2421-A |
| UPRR146 | 150 | 24000 | 1.25 | 2.50 | 220 | 721+33.73 | 728+73.02 | T2424-A |
| UPRR147 | 150 | 32000 | | | 220 | 728+73.02 | 738+88.07 | T2424-A |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY T. WALTZ |
| CHECKED BY A. SHIELDS |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 ALIGNMENT
AVENUE 24
TRACK GEOMETRY DATA
SHEET 1 OF 1

| |
|---------------------------|
| CONTRACT NO. HSR06-007 |
| DRAWING NO. T0151-A |
| SCALE NO SCALE |
| SHEET NO. ### OF ### |

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| ALTERNATIVE HYBRID AVENUE 24 | | | |
|------------------------------|---------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| HYBRID 24 | 892+90 | 926+80 | AG2 |
| | 926+80 | 1020+00 | WYE1 |
| | 1020+00 | 1185+00 | AG2 |
| | 1185+00 | 1230+00 | WYE1 |
| | 1230+00 | 1360+00 | AG2 |
| | 1360+00 | 1375+00 | RF2 |
| | 1375+00 | 1435+00 | EL1 |
| | 1435+00 | 1443+00 | RF2 |
| | 1443+00 | 2681+00 | AG2 |
| | 2681+00 | 2695+00 | RF2 |
| | 2695+00 | 2731+50 | EL1 |
| | 2731+50 | 2740+55 | EL5 |
| | | | |
| | | | |
| | | | |
| HYBRID-FR | 1713+98 | 1737+00 | EL6 |
| | 1737+00 | 1764+78 | EL7 |
| | 1764+78 | 1767+00 | EL8 |
| | 1767+00 | 1788+84 | RF3 |
| | 1788+84 | 1843+35 | AG6 |
| | 1843+35 | 1893+95 | RF3 |
| | 1893+95 | 1958+00 | AG6 |
| UPRR/SR 99 WCD0/HYBRID MC SB | 1958+00 | 2072+36 | AG7 |
| | 5061+66 | 5015+00 | WYE1 |
| | 5015+00 | 5235+00 | AG4 |
| | 5235+00 | 5285+00 | WYE 1 |
| UPRR/SR 99 WCD0/HYBRID MC NB | 5288+00 | 5556+91 | AG2 |
| | | | |
| | 5058+80 | 5110+00 | WYE1 |
| | 5110+00 | 5121+00 | EL2 |
| | 5121+00 | 5127+00 | RF2 |
| | 5127+00 | 5235+00 | AG4 |
| | 5235+00 | 5285+00 | WYE1 |
| UPRR/SR 99-21MC | 5285+00 | 5597+00 | AG2 |
| | | | |
| | 5556+98 | 5910+00 | AG1 |
| | 5910+00 | 5916+50 | TR2 |
| | 5916+50 | 5917+60 | CC1 |
| | 5917+60 | 5925+00 | TR2 |
| | 5925+00 | 5977+70 | AG1 |
| | 5977+70 | 5989+20 | TR2 |
| | 5989+20 | 5990+20 | CC1 |
| | 5990+20 | 6003+00 | TR2 |
| | 6003+00 | 6022+00 | AG1 |
| | 6022+00 | 6040+60 | TR2 |
| | 6040+60 | 6042+90 | CC1 |
| | 6042+90 | 6052+50 | TR1 |
| | 6052+50 | 6066+20 | AG5 |
| UPRR/SR 99 WCD0/HYBRID WC NB | 148+82 | 205+00 | WYE1 |
| | 205+00 | 211+00 | EL2 |
| | 211+00 | 219+00 | RF2 |
| | 219+00 | 313+50 | AG4 |
| | 313+50 | 320+00 | RF2 |
| | 320+00 | 330+00 | EL2 |
| | 330+00 | 382+25 | WYE1 |
| | | | |
| UPRR/SR 99 WCD0/HYBRID WC SB | 524+67 | 570+00 | WYE1 |
| | 570+00 | 695+00 | AG4 |
| | 695+00 | 738+88 | WYE1 |

| ALTERNATIVE HYBRID AVENUE 21 | | | |
|------------------------------|---------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| HYBRID 21 | 892+90 | 330+00 | AG2 |
| | 330+00 | 430+00 | WYE1 |
| | 430+00 | 565+00 | AG2 |
| | 565+00 | 580+00 | RF2 |
| | 580+00 | 630+00 | EL1 |
| | 630+00 | 640+00 | RF2 |
| | 640+00 | 680+00 | WYE1 |
| | 680+00 | 868+87= | AG2 |
| | 1865+00 | 2681+00 | AG2 |
| | 2681+00 | 2695+00 | RF2 |
| | 2695+00 | 2731+50 | EL1 |
| | 2731+50 | 2740+55 | EL5 |
| | | | |
| | | | |
| | | | |
| HYBRID-FR | 1713+98 | 1737+00 | EL6 |
| | 1737+00 | 1764+78 | EL7 |
| | 1764+78 | 1767+00 | EL8 |
| | 1767+00 | 1788+84 | RF3 |
| | 1788+84 | 1843+35 | AG6 |
| | 1843+35 | 1893+95 | RF3 |
| | 1893+95 | 1958+00 | AG6 |
| HYBRID MC SB - 21 | 1958+00 | 2072+36 | AG7 |
| | 200+20 | 250+00 | WYE1 |
| | 250+00 | 290+00 | EL2 |
| | 290+00 | 377+99 | EL1 |
| HYBRID MC NB - 21 | | | |
| | 500+00 | 550+00 | WYE1 |
| | 550+00 | 590+00 | EL2 |
| | 590+00 | 677+40 | EL1 |
| UPRR/SR 99-21MC | | | |
| | 4907+27 | 4975+00 | EL1 |
| | 4975+00 | 5045+00 | WYE2 |
| | 5045+00 | 5385+00 | EL1 |
| | 5385+00 | 5425+00 | RF2 |
| | 5425+00 | 5910+00 | AG1 |
| | 5910+00 | 5915+50 | TR2 |
| | 5915+50 | 5916+60 | CC1 |
| | 5916+60 | 5924+00 | TR2 |
| | 5924+00 | 5977+70 | AG1 |
| UPRR/SR 99-21WC NB | 5977+70 | 5989+30 | TR2 |
| | 5989+30 | 5990+40 | CC1 |
| | 5990+40 | 6003+00 | TR2 |
| | 6003+00 | 6022+00 | AG1 |
| | 6022+00 | 6040+60 | TR2 |
| | 6040+60 | 6042+90 | CC1 |
| | 6042+90 | 6052+50 | TR1 |
| | 6052+50 | 6066+20 | AG5 |
| | | | |
| | 505+00 | 610+00 | WYE1 |
| | 610+00 | 619+50 | EL2 |
| | 619+50 | 628+35 | RF1 |
| | 628+35 | 714+80 | AG4 |
| | 714+80 | 724+20 | RF1 |
| | 724+20 | 780+00 | EL2 |
| UPRR/SR 99-21WC SB | 780+00 | 846+94 | WYE2 |
| | | | |
| | 105+00 | 180+00 | WYE1 |
| | 180+00 | 298+80 | AG4 |
| | 298+80 | 313+21 | RF1 |

| ALTERNATIVE BNSF AVENUE 21 | | | |
|----------------------------|---------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| BNSF-21ML | 267+41 | 562+00 | AG2 |
| | 562+00 | 582+61 | RF2 |
| | 582+61 | 634+76 | EL1 |
| | 634+76 | 665+80 | RF2 |
| | 665+80 | 859+40 | AG2 |
| | 859+40 | 881+05 | RF2 |
| | 881+05 | 925+00 | EL1 |
| | 925+00 | 985+00 | WYE1 |
| | 985+00 | 1042+75 | EL1 |
| | 1042+75 | 1060+00 | RF2 |
| | 1060+00 | 1305+00 | AG1 |
| | 1305+00 | 1685+00 | AG2 |
| | 1685+00 | 1696+00 | RF2 |
| | 1667+59 | 1731+50 | EL1 |
| | 1731+50 | 1741+00 | EL5 |
| | | | |
| | 1713+98 | 1737+00 | EL6 |
| | 1737+00 | 1764+78 | EL7 |
| BNSF-FR | 1764+78 | 1767+00 | EL8 |
| | 1767+00 | 1788+84 | RF3 |
| | 1788+84 | 1843+35 | AG6 |
| | 1843+35 | 1893+95 | RF3 |
| | 1767+00 | 1788+84 | RF3 |
| | 1788+84 | 1843+35 | AG6 |
| | 1843+35 | 1893+95 | RF3 |
| | 1893+95 | 1958+00 | AG6 |
| | 1958+00 | 2072+36 | AG7 |
| | | | |
| BNSF-21WC NB | 105+85 | 205+00 | WYE2 |
| | 205+00 | 220+66 | EL2 |
| | 220+66 | 230+00 | RF1 |
| | 230+00 | 357+00 | AG4 |
| | 357+00 | 371+02 | RF1 |
| | 371+02 | 383+00 | EL2 |
| BNSF-21WC SB | 383+00 | 474+09 | WYE1 |
| | | | |
| | 500+00 | 550+00 | WYE2 |
| | 550+00 | 720+00 | AG4 |
| BNSF-MC | 720+00 | 765+39 | WYE1 |
| | | | |
| | 4302+03 | 4345+02 | EL2 |
| | 4345+02 | 4351+00 | RF1 |
| | 4351+00 | 4405+00 | WYE1 |
| | 4405+00 | 5296+45 | AG1 |
| | 5269+45 | 5266+88 | RF2 |
| | 5266+88 | 5352+88 | EL3 |
| | 5352+88 | 5371+50 | RF2 |
| | 5371+50 | 5850+85 | AG1 |
| | 5850+85 | 5866+57 | RF2 |
| | 5866+57 | 5960+00 | EL1 |
| | 5960+00 | 5967+00 | RF2 |
| | 5967+00 | 5977+70 | AG1 |
| | 5977+70 | 5989+20 | TR2 |
| | 5989+20 | 5990+20 | CC1 |
| | 5990+20 | 6003+00 | TR2 |
| | 6003+00 | 6022+00 | AG1 |
| | 6022+00 | 6040+60 | TR2 |
| | 6040+60 | 6042+90 | CC1 |
| | 6042+90 | 6052+50 | TR1 |
| | 6052+50 | 6066+20 | AG5 |

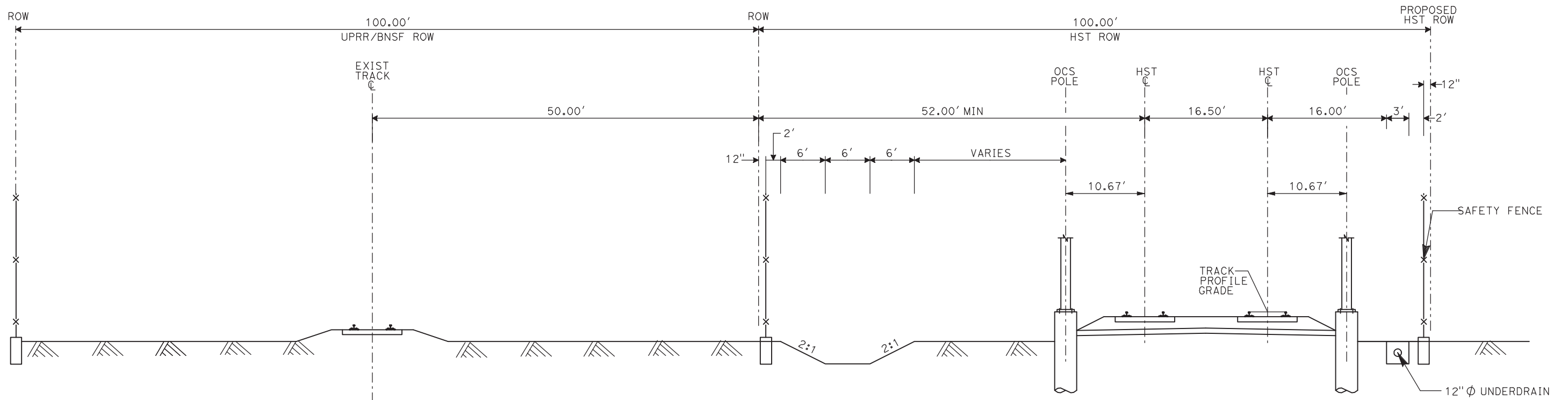
| ALTERNATIVE BNSF AVENUE 24 | | | |
|----------------------------|---------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| BNSF-24ML | 892+90 | 1185+00 | AG2 |
| | 1185+00 | 1235+00 | WYE1 |
| | 1235+00 | 1332+20 | AG2 |
| | 1332+20 | 1350+84 | RF2 |
| | 1350+84 | 1430+00 | WYE2 |
| | 1430+00 | 1431+49 | EL1 |
| | 1431+49 | 1451+90 | RF2 |
| | 1451+90 | 1864+25 | AG2 |
| | 1864+25 | 1881+05 | RF2 |
| | 1881+05 | 1890+17 | EL1 |
| | | | |
| | 104+65 | 195+00 | WYE2 |
| BNSF-24WC NB | 195+00 | 220+66 | EL2 |
| | 220+66 | 227+55 | RF1 |
| | 227+55 | 400+70 | AG4 |
| | 400+70 | 438+00 | RF1 |
| | 438+00 | 450+00 | EL2 |
| | 450+00 | 477+55 | WYE1 |
| BNSF-24WC SB | 477+55 | 508+20 | RF1 |
| | 508+20 | 576+13 | AG4 |
| | | | |
| | 500+00 | 582+14 | WYE2 |
| | 582+14 | 592+75 | RF1 |
| | 592+75 | 840+00 | AG4 |
| | 840+00 | 896+06 | WYE1 |

| ALTERNATIVE UPRR/SR 99 AVENUE 21 | | | |
|----------------------------------|---------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| UPRR/SR 99-21ML | 270+60 | 604+70 | AG2 |
| | 604+70 | 626+28 | RF2 |
| | 626+28 | 715+00 | EL1 |
| | 715+00 | 805+00 | WYE1 |
| | 805+00 | 1294+33 | EL1 |
| | 1294+33 | 1305+00 | RF2 |
| | 1305+00 | 1570+00 | AG1 |
| | 1570+00 | 1593+20 | TR2 |
| | 1593+20 | 1594+10 | CC1 |
| | 1594+10 | 1610+00 | TR2 |
| | 1610+00 | 1615+00 | AG1 |
| | 1615+00 | 1622+00 | RF2 |
| | 1622+00 | 1635+00 | EL1 |
| | 1635+00 | 1633+24 | EL5 |
| | | | |
| UPRR/SR 99-FR | 1713+98 | 1737+00 | EL6 |
| | 1737+00 | 1764+78 | EL7 |
| | 1764+78 | 1767+00 | EL8 |
| | 1767+00 | 1788+84 | RF3 |
| | 1788+84 | 1843+35 | AG6 |
| | 1843+35 | 1893+95 | RF3 |
| | 1893+95 | 1958+00 | AG6 |
| | 1958+00 | 2072+36 | AG7 |
| | | | |
| | | | |
| UPRR/SR 99-21WC NB | 505+00 | 610+00 | WYE1 |
| | 610+00 | 619+50 | EL2 |
| | 619+50 | 628+35 | RF1 |
| | 628+35 | 714+80 | AG4 |
| | 714+80 | 724+20 | RF1 |
| | 724+20 | 780+00 | EL2 |
| | 780+00 | 846+94 | WYE2 |
| UPRR/SR 99-21WC SB | | | |
| | 105+00 | 180+00 | WYE1 |
| | 180+00 | 298+80 | AG4 |
| | 298+80 | 313+21 | RF1 |
| | 131+21 | 340+00 | EL2 |
| UPRR/SR 99-21MC | 340+00 | 397+52 | WYE2 |
| | | | |
| | 4586+50 | 4670+00 | WYE1 |
| | 4670+00 | 4796+00 | AG1 |
| | 4796+00 | 4810+00 | RF2 |
| | 4810+00 | 4975+00 | EL1 |
| | 4975+00 | 5045+00 | WYE2 |
| | 5045+00 | 5385+00 | EL1 |
| | 5385+00 | 5425+00 | RF2 |
| | 5425+00 | 5910+00 | AG1 |
| | 5910+00 | 5915+50 | TR2 |
| | 5915+50 | 5916+60 | CC1 |
| | 5916+60 | 5924+00 | TR2 |
| | 5924+00 | 5977+70 | AG1 |
| | 5977+70 | 5989+30 | TR2 |
| | 5989+30 | 5990+40 | CC1 |
| | 5990+40 | 6003+00 | TR2 |
| | 6003+00 | 6022+00 | AG1 |
| | 6022+00 | 6040+60 | TR2 |
| | 6040+60 | 6042+90 | CC1 |
| | 6042+90 | 6052+50 | TR1 |
| | 6052+50 | 6066+20 | AG5 |
| | | | |

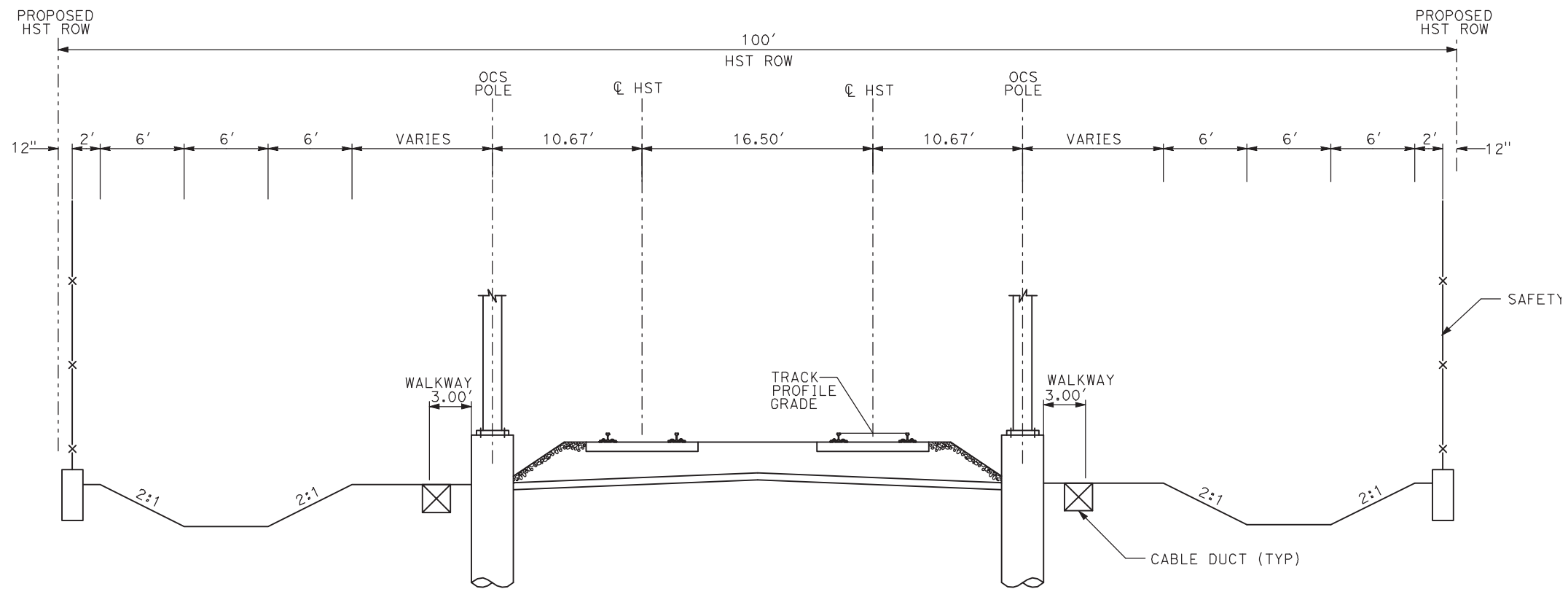
| ALTERNATIVE UPRR/SR 99 AVENUE 24 | | | |
|----------------------------------|--------------------|-------------|---------|
| ALIGNMENT | BEGIN STATION | END STATION | SECTION |
| UPRR/SR 99-24ML | 917+20 | 965+00 | AG2 |
| | 965+00 | 1030+00 | WYE1 |
| | 1030+00 | 1330+00 | AG2 |
| | 1330+00 | 1380+00 | RF2 |
| | 1380+00 | 1515+00 | EL1 |
| | 1515+00 | 1590+00 | EL5 |
| UPRR/SR 99-24WC NB | 1590+00 | 1753+40 | EL1 |
| | | | |
| | 105+00 | 205+00 | WYE1 |
| | 205+00 | 220+00 | EL2 |
| | 220+00 | 227+00 | RF1 |
| | 227+00 | 349+90 | AG4 |
| | 349+90 | 494+12 | AG2 |
| | 494+12 | 521+00 | AG4 |
| | 521+00 | 527+00 | RF1 |
| | 527+00 | 555+00 | EL2 |
| | 555+00 | 626+90 | WYE1 |
| | UPRR/SR 99-24WC SB | | |
| 705+00 | | 775+00 | WYE1 |
| 775+00 | | 921+72 | AG4 |
| 921+72 | | 1062+85 | AG2 |
| 1062+85 | | 1130+00 | AG4 |
| 1130+00 | | 1191+24 | WYE 1 |
| UPRR/SR 99-24WC | | | |
| | 4760+15 | 4845+00 | WYE2 |
| | 4845+00 | 4907+25 | EL1 |

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ShieldsA



AG1- DOUBLE TRACK AT GRADE ADJACENT TO UPRR/BNSF



AG2 - DOUBLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Sacramento, CA 95811
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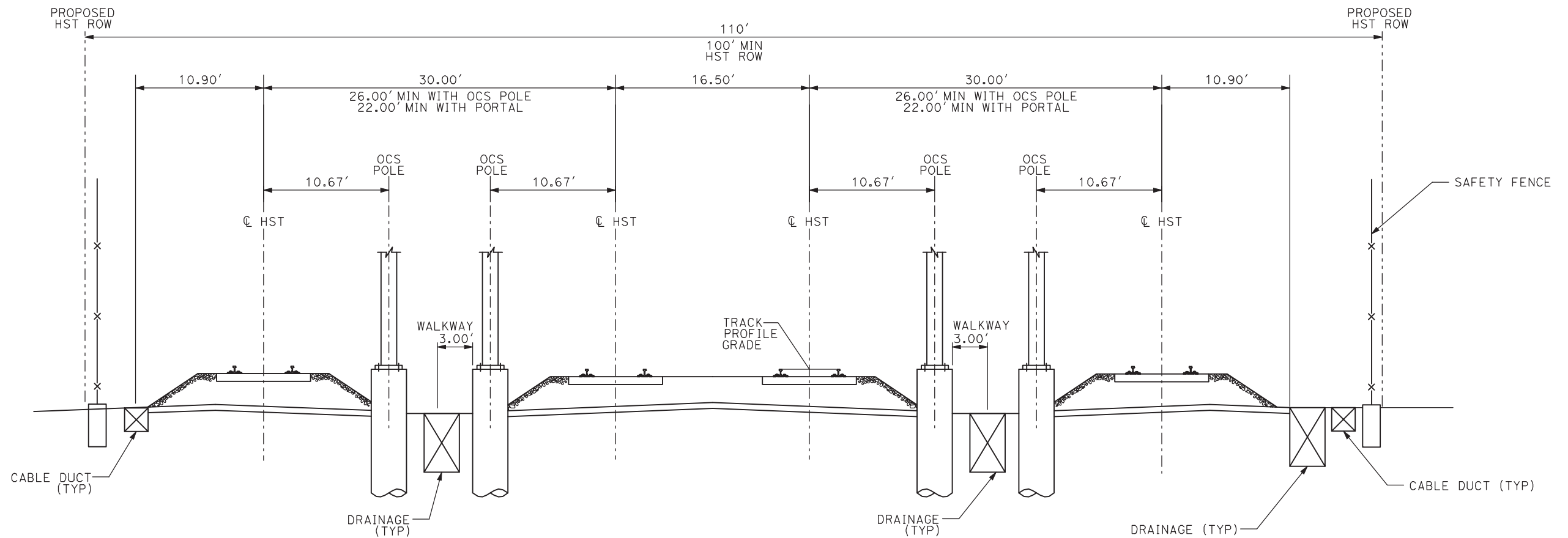


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

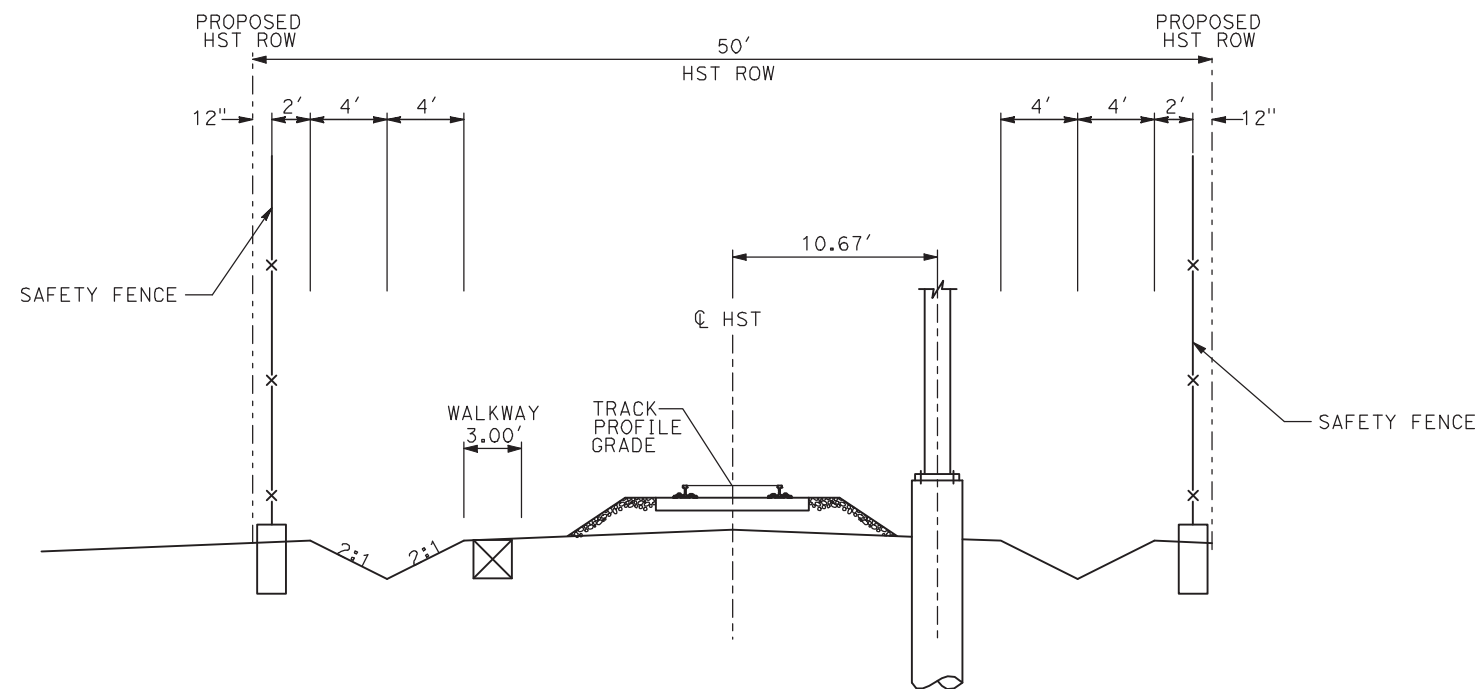
TYPICAL SECTIONS
SHEET 1 OF 17

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T3001-A |
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ShieldsA



AG3 - 4 TRACK AT GRADE



AG4 - SINGLE TRACK AT GRADE

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

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15% DESIGN
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CONSTRUCTION

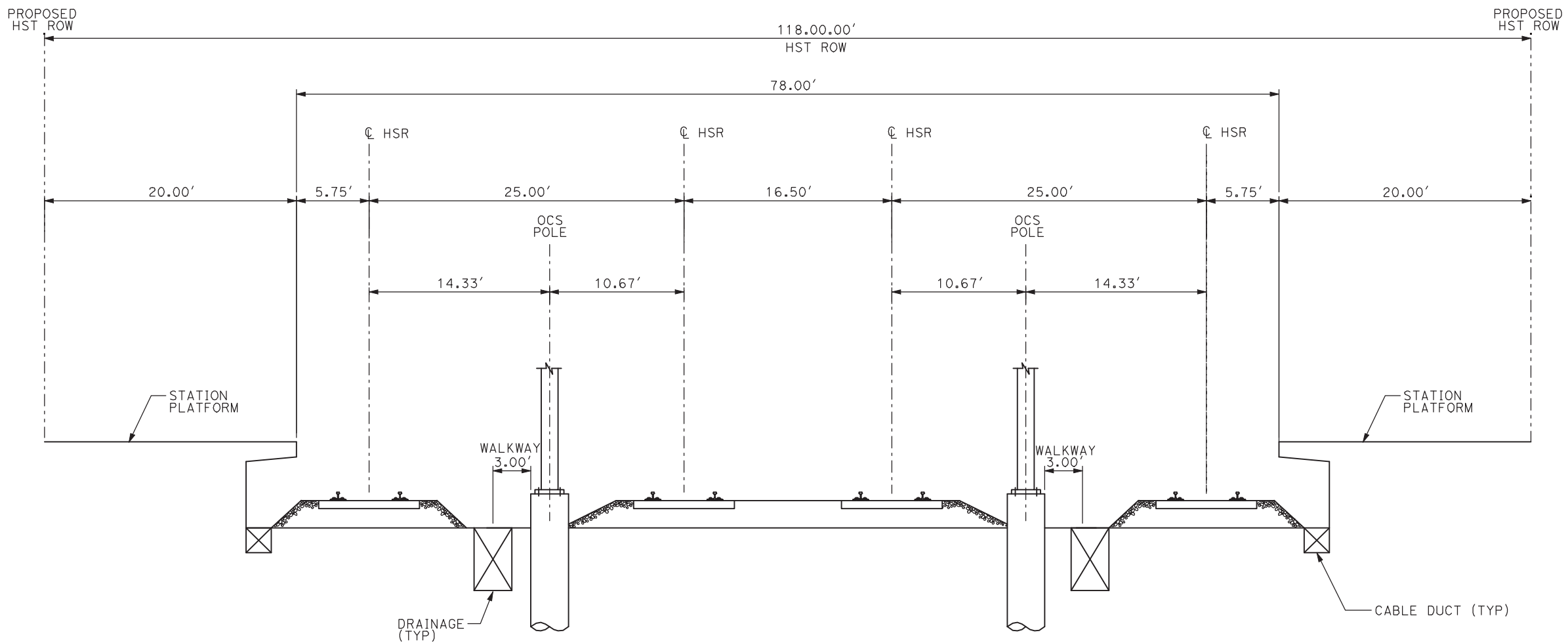
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 2 OF 17

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| CONTRACT NO. | HSR06-007 |
| DRAWING NO. | T3002-A |
| SCALE | NO SCALE |
| SHEET NO. | OF ### |



AG5 - 4 TRACK AT GRADE MERCED STATION

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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CONSTRUCTION

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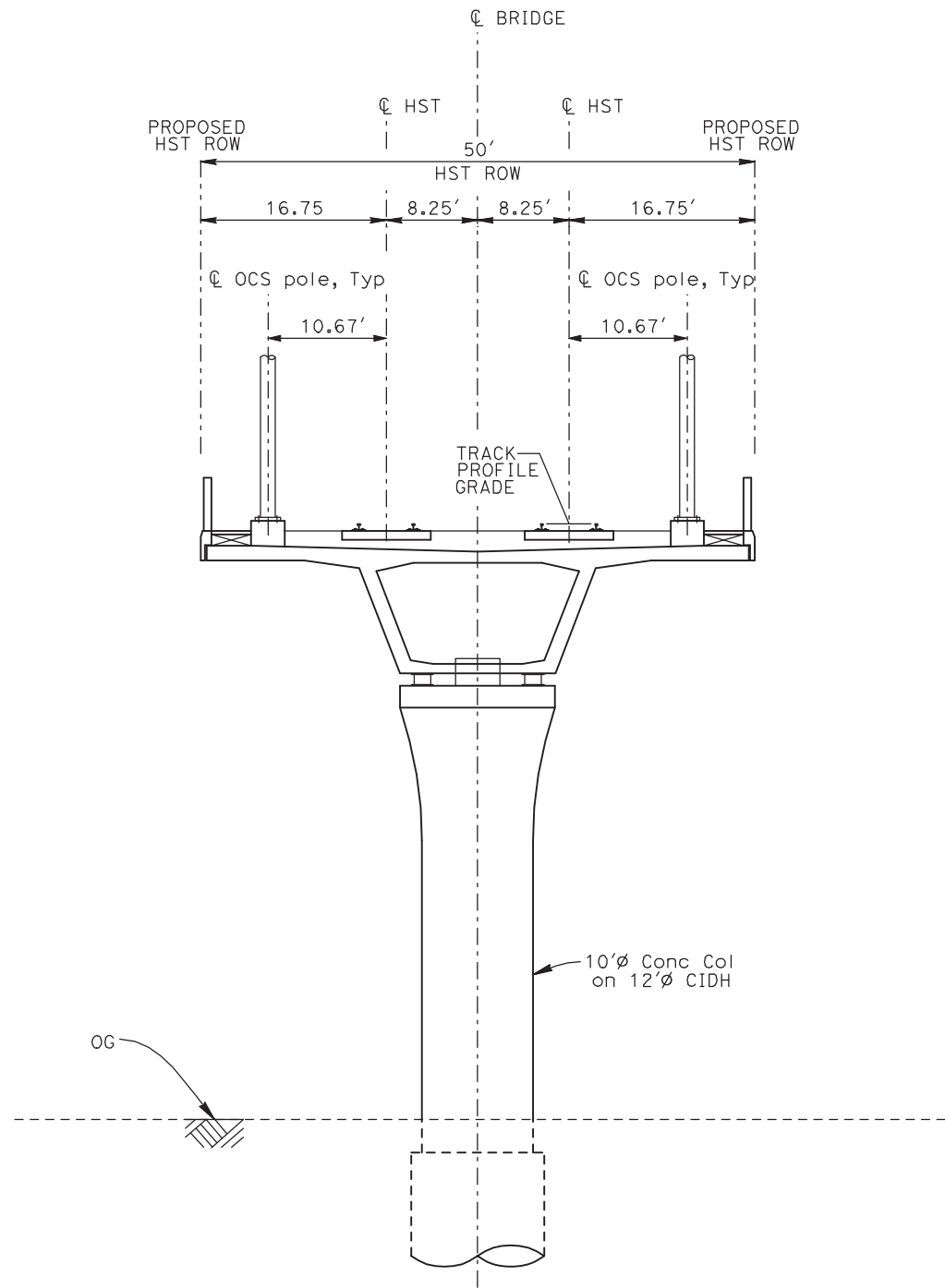


CALIFORNIA HIGH-SPEED TRAIN PROJECT
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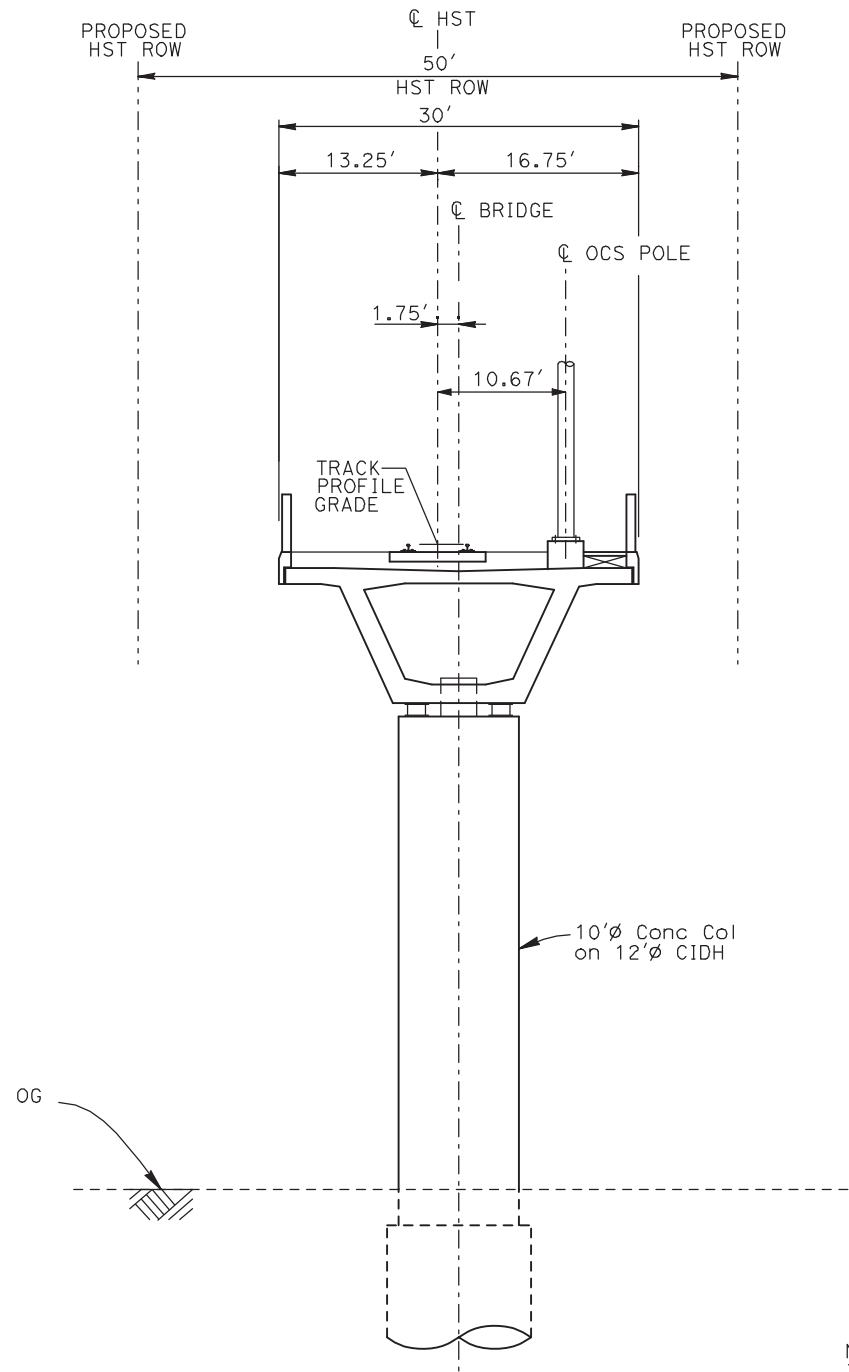
TYPICAL SECTIONS
SHEET 3 OF 17

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| CONTRACT NO. HSR06-007 |
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| SHEET NO. OF ### |

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ShieldsA



EL1 - DOUBLE TRACK ELEVATED



EL2 - SINGLE TRACK ELEVATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. BACK-TO-BACK CANTILEVERS ON A SINGLE POLE MAY BE PERMITTED AT PASSENGER STATIONS.
 3. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 4. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

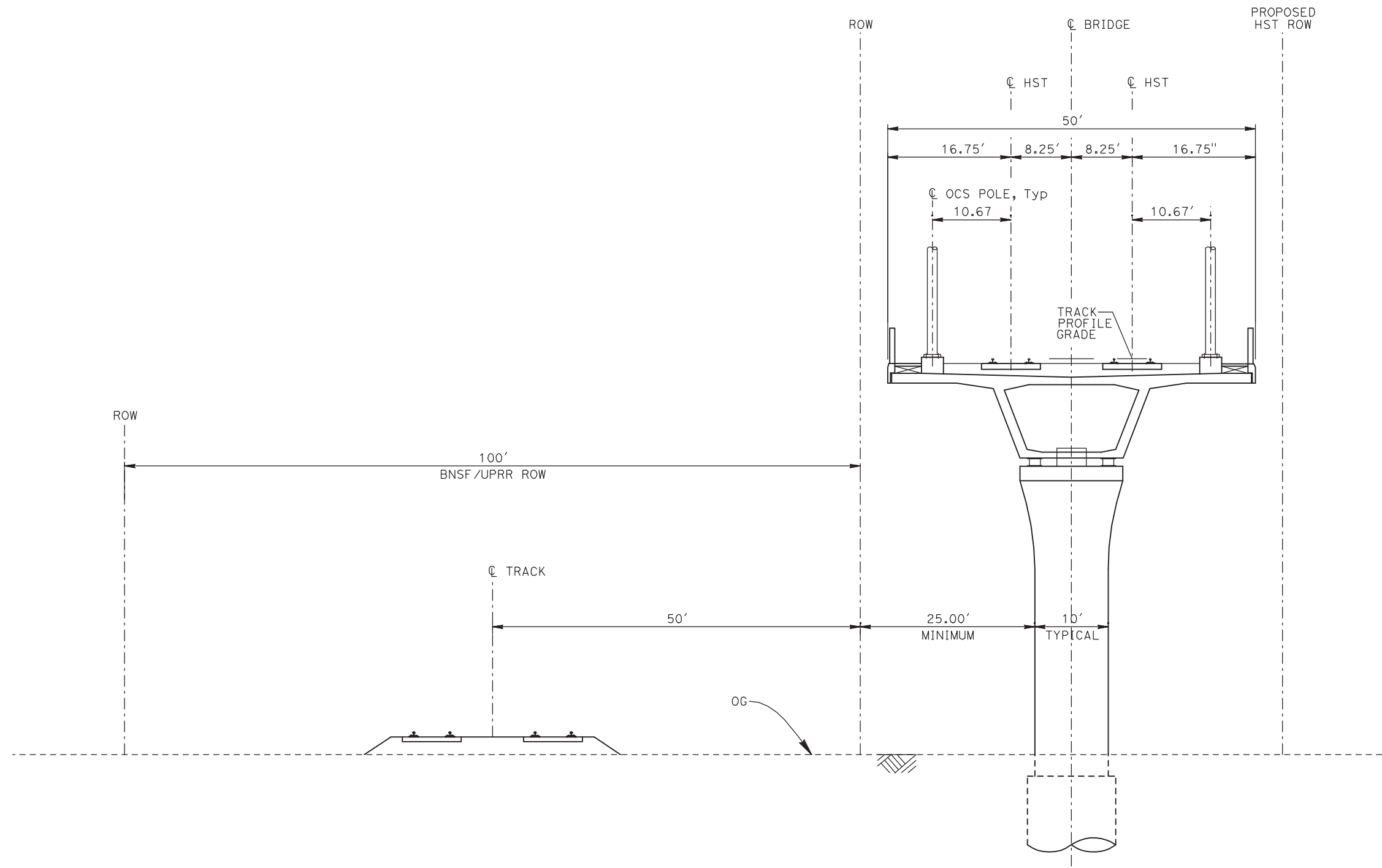
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 4 OF 17

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| CONTRACT NO. HSR06-007 |
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| SHEET NO. OF ### |

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ShieldsA



EL3 - DOUBLE TRACK ELEVATED ADJACENT TO UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
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SUBMITTAL**

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CONSTRUCTION**



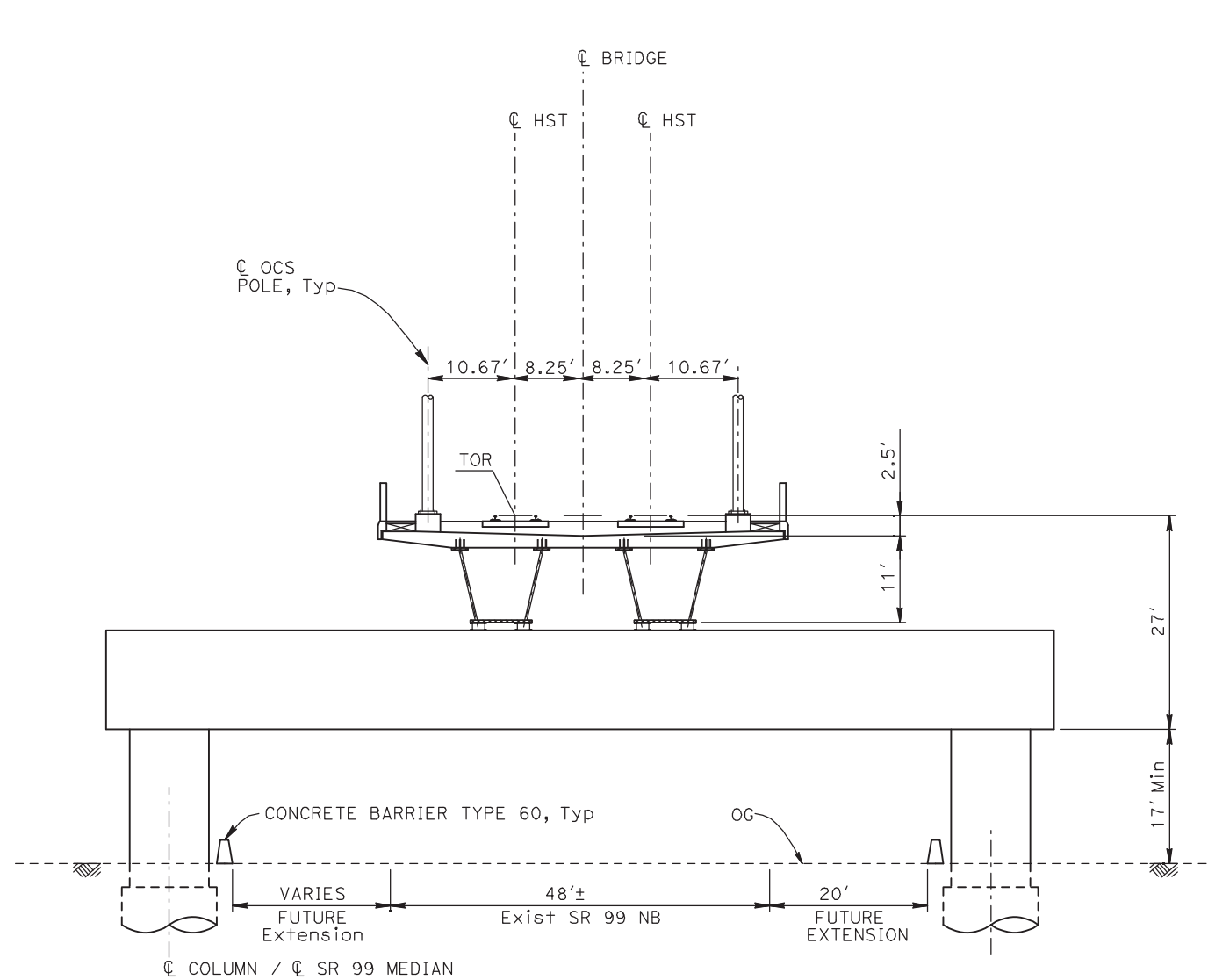
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 5 OF 17

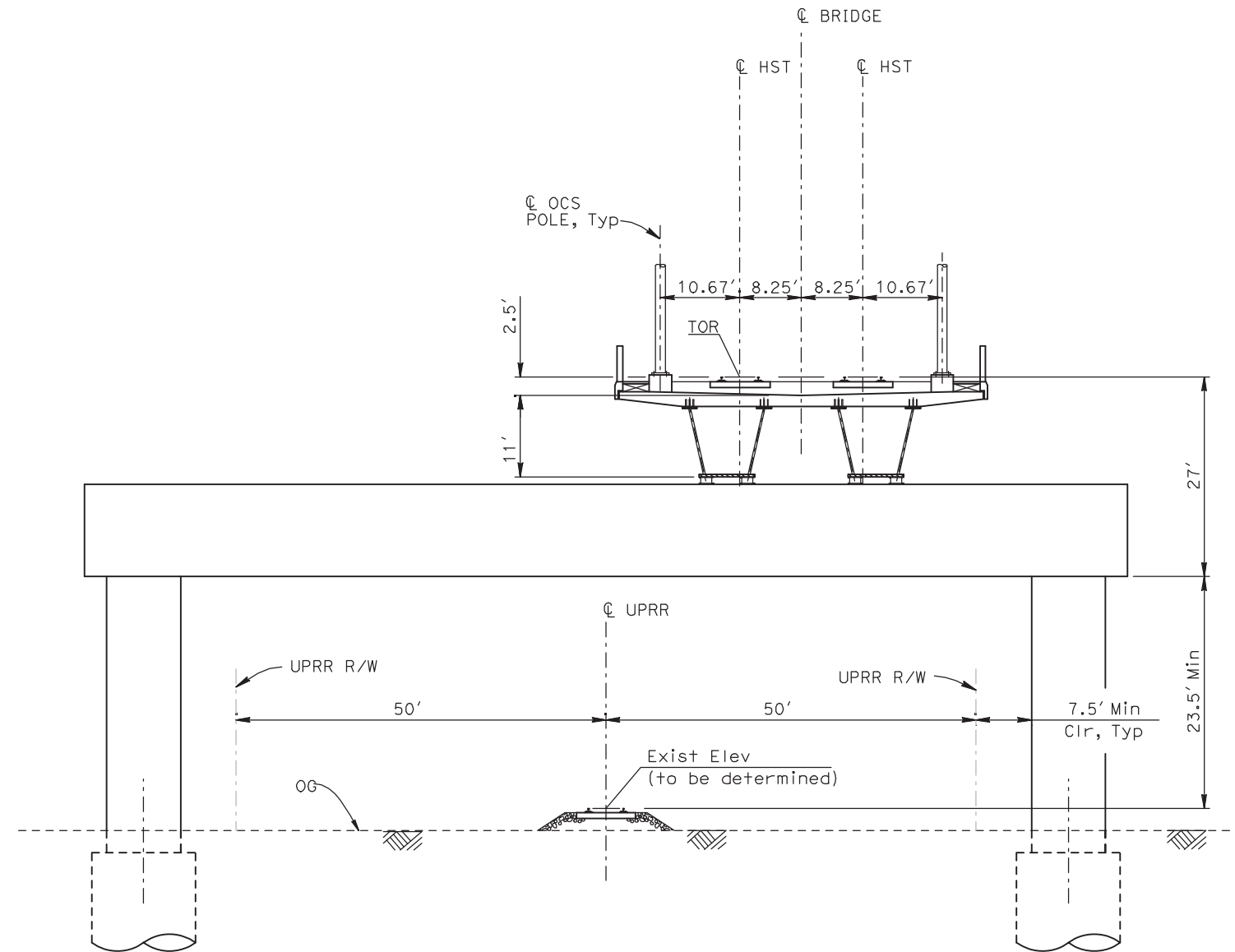
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ShieldsA



EL4 - DOUBLE TRACK ELEVATED CROSSING SR99



EL5 - DOUBLE TRACK ELEVATED CROSSING UPRR/BNSF

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
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**CALIFORNIA
HIGH-SPEED RAIL AUTHORITY**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

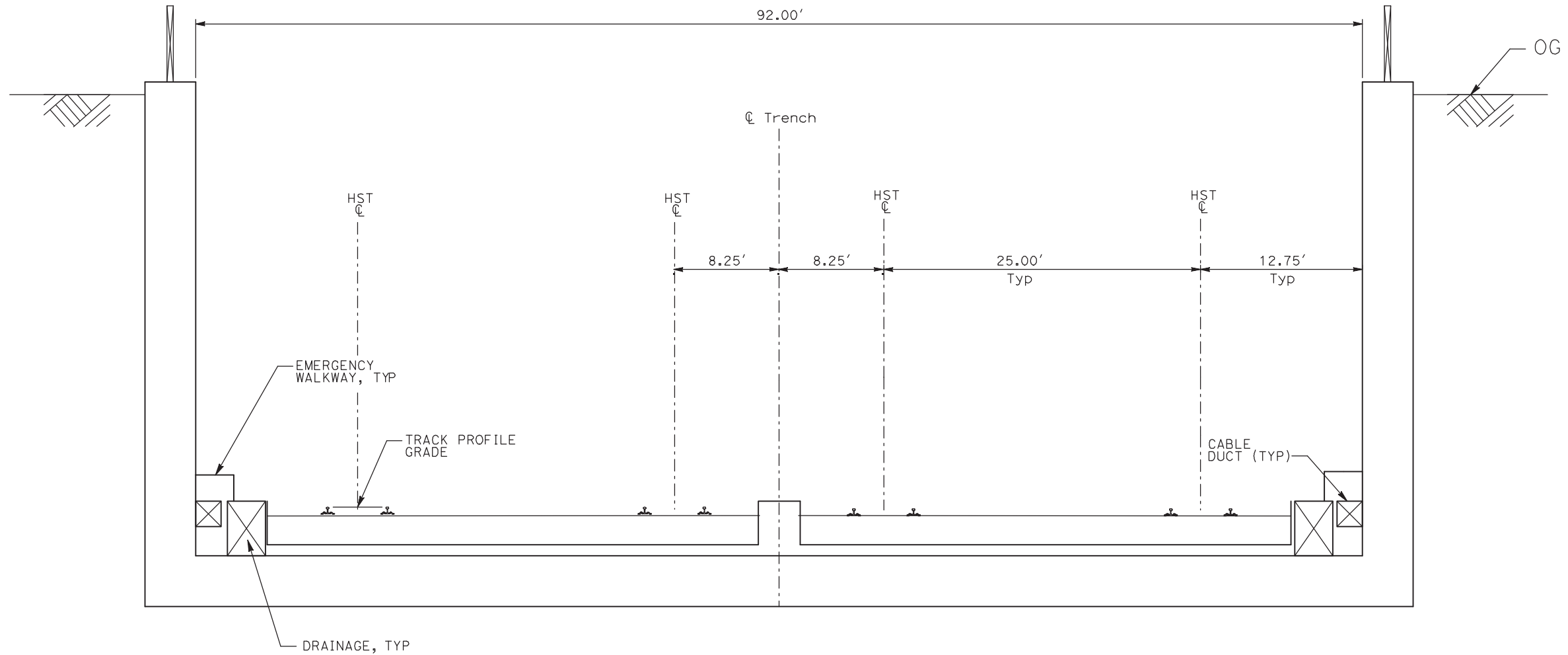
TYPICAL SECTIONS
SHEET 6 OF 17

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| SCALE NO SCALE |
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TR1 - 4 TRACK TRENCH STATION APPROACH

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
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DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

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CONSTRUCTION**

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Sacramento, CA 95811
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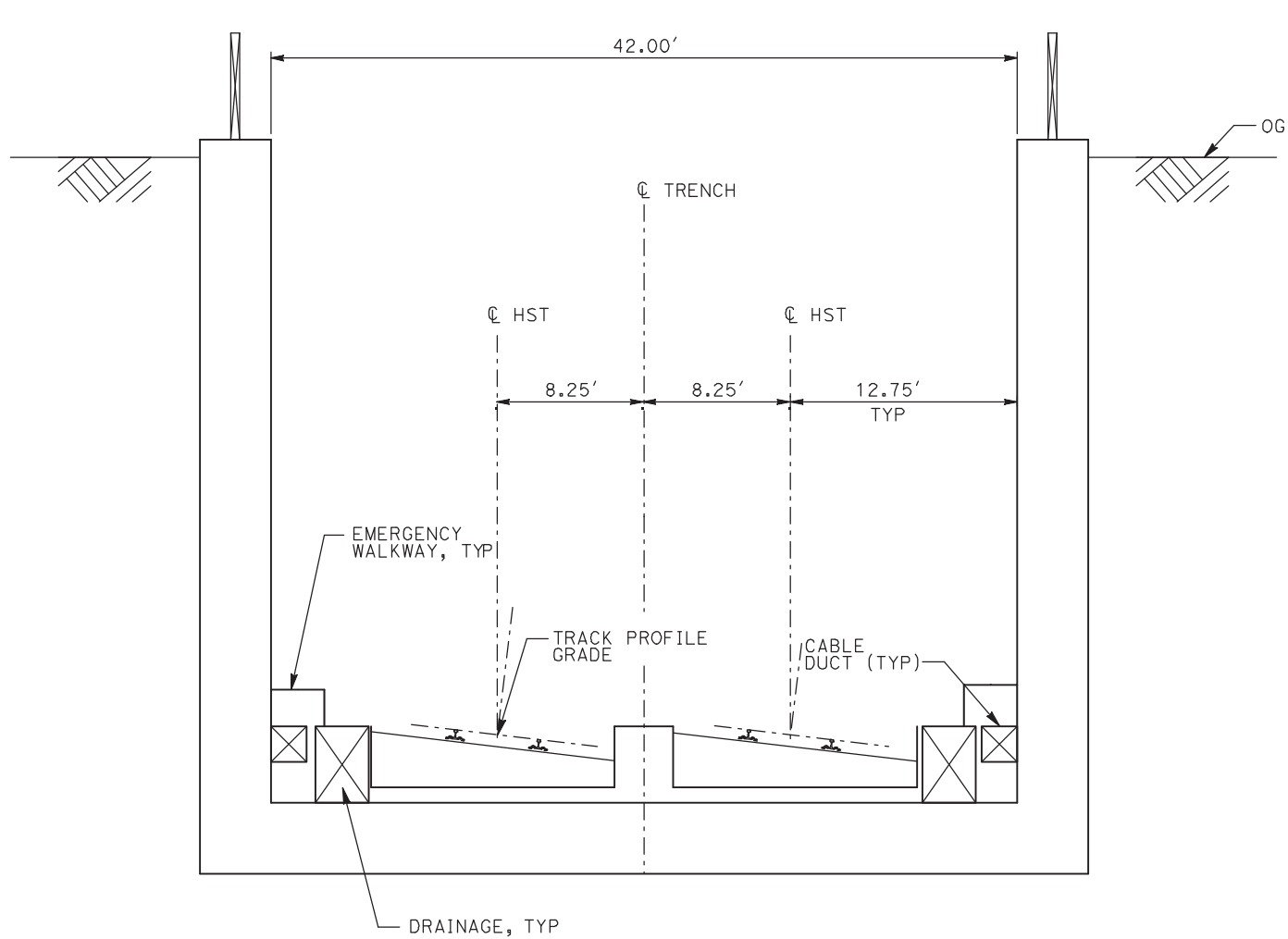
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 7 OF 17

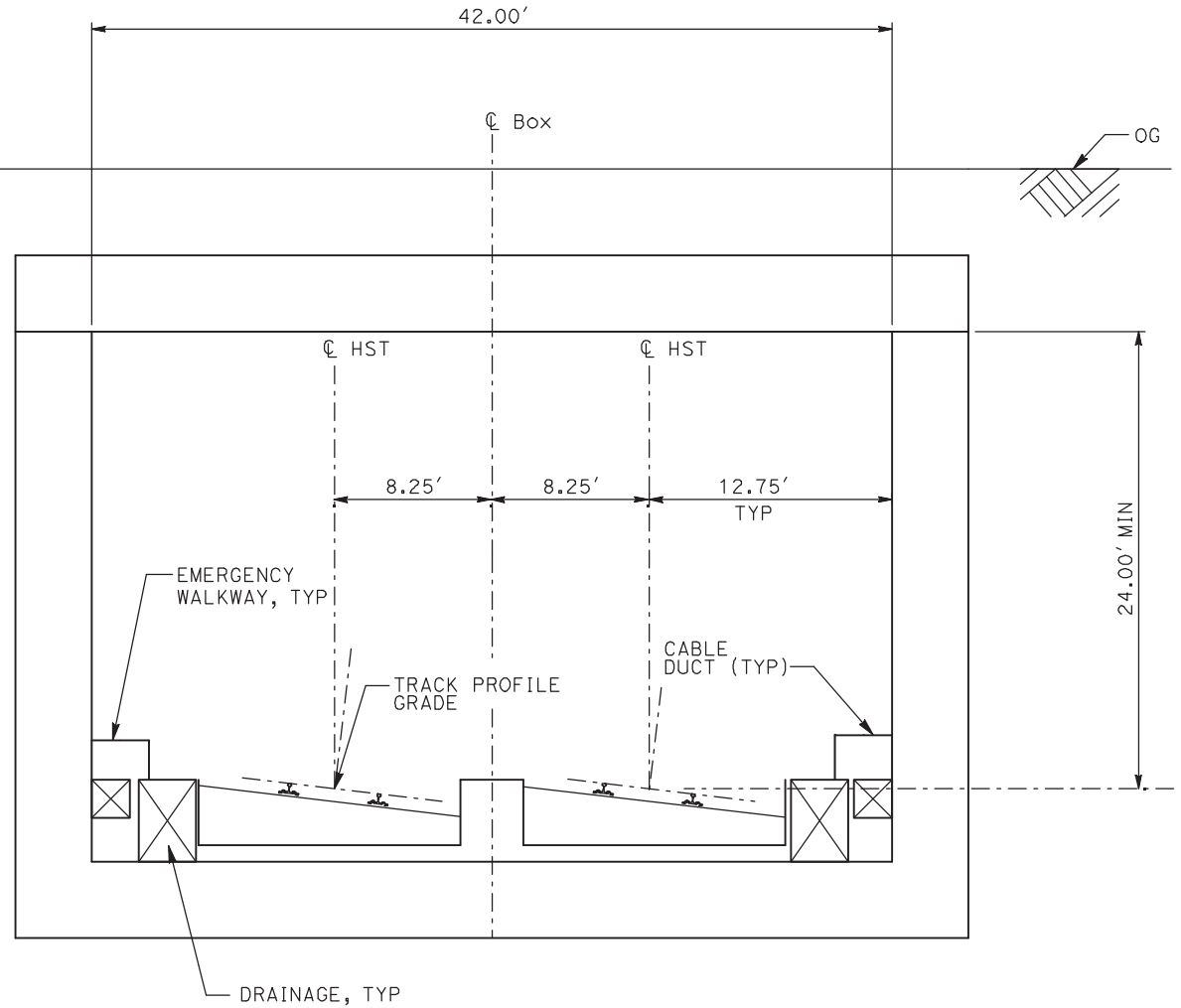
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HSR06-007
DRAWING NO.
T3007-A
SCALE
NO SCALE
SHEET NO.
OF ###

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TR2 - 2 TRACK TRENCH



CC1 - 2 TRACK CUT AND COVER CLOSED BOX

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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DESIGNED BY
A. SHIELDS
DRAWN BY
C. VALADAO
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
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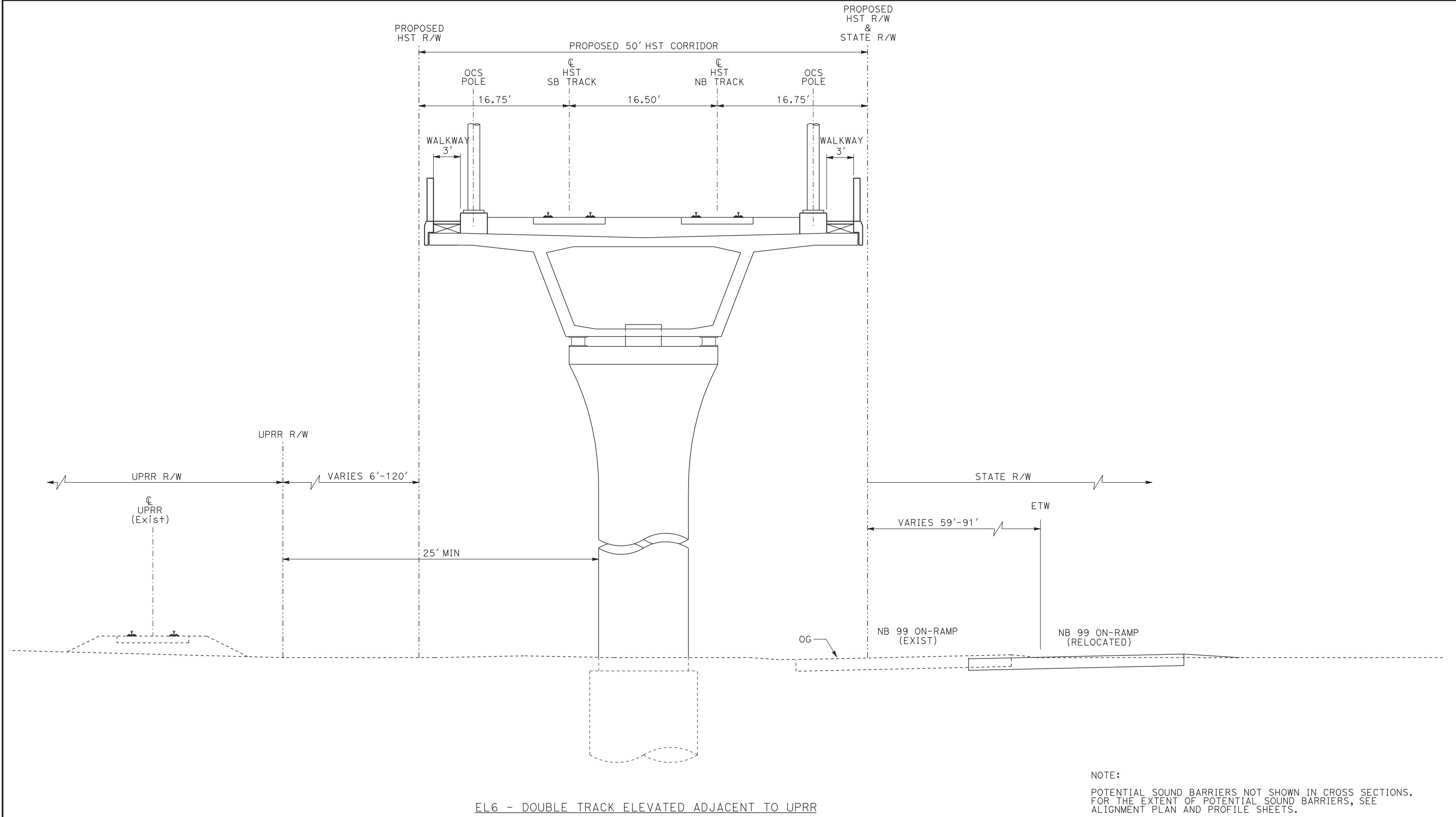


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 8 OF 17

CONTRACT NO.
HSR06-007
DRAWING NO.
T3008-A
SCALE
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SHEET NO.
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NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY L. PROCTOR |
| DRAWN BY S. LEONG |
| CHECKED BY V. CHIO |
| IN CHARGE J. VALSECCHI |
| DATE JULY 2011 |

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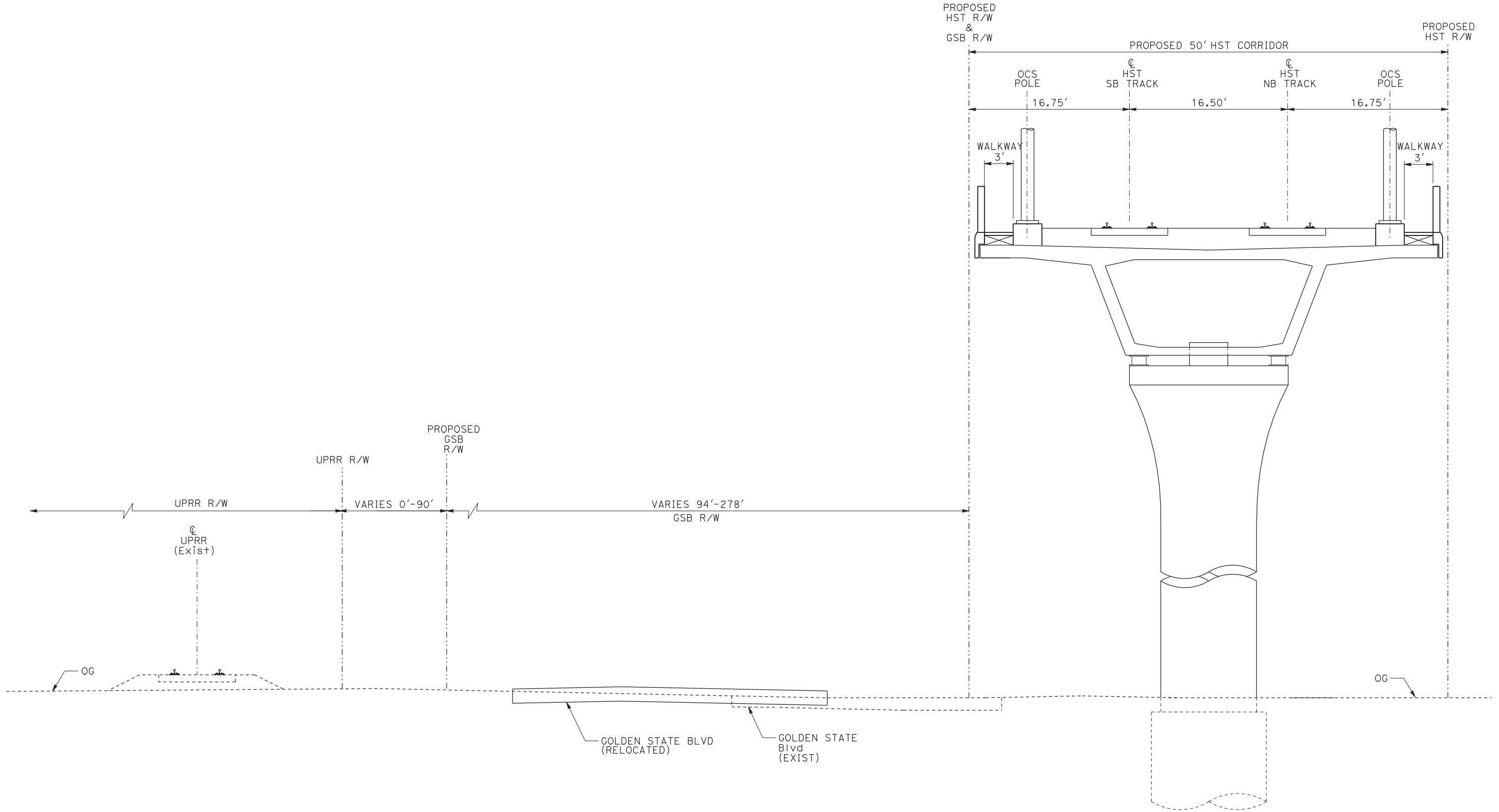


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 9 OF 17

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T3009-A |
| SCALE NO SCALE |
| SHEET NO. |



EL7 - DOUBLE TRACK ELEVATED ADJACENT TO GOLDEN STATE BOULEVARD

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

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| DRAWN BY S. LEONG |
| CHECKED BY V. CHIO |
| IN CHARGE J. VALSECCHI |
| DATE JULY 2011 |

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NOT FOR
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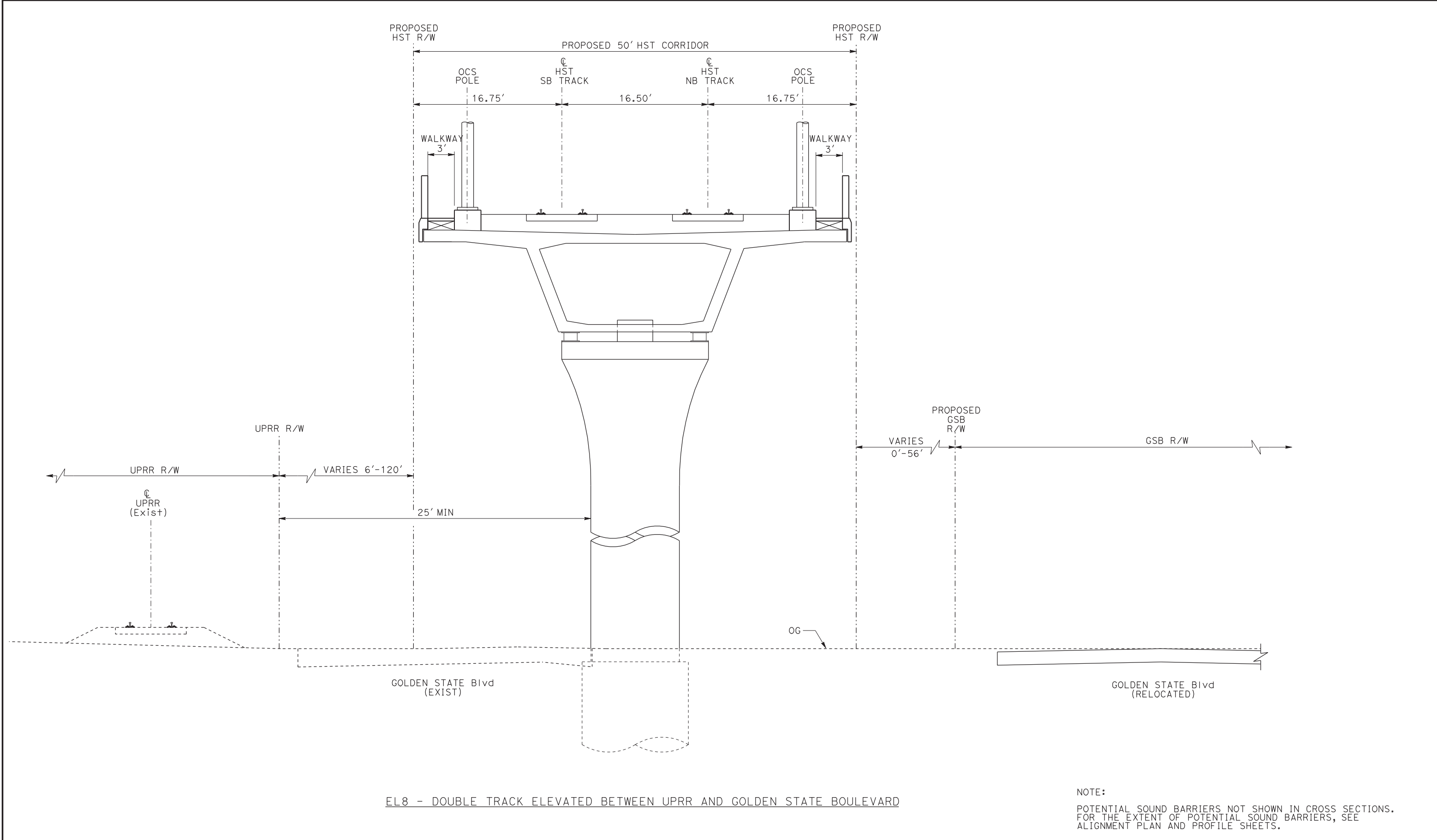


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
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TYPICAL SECTIONS
SHEET 10 OF 17

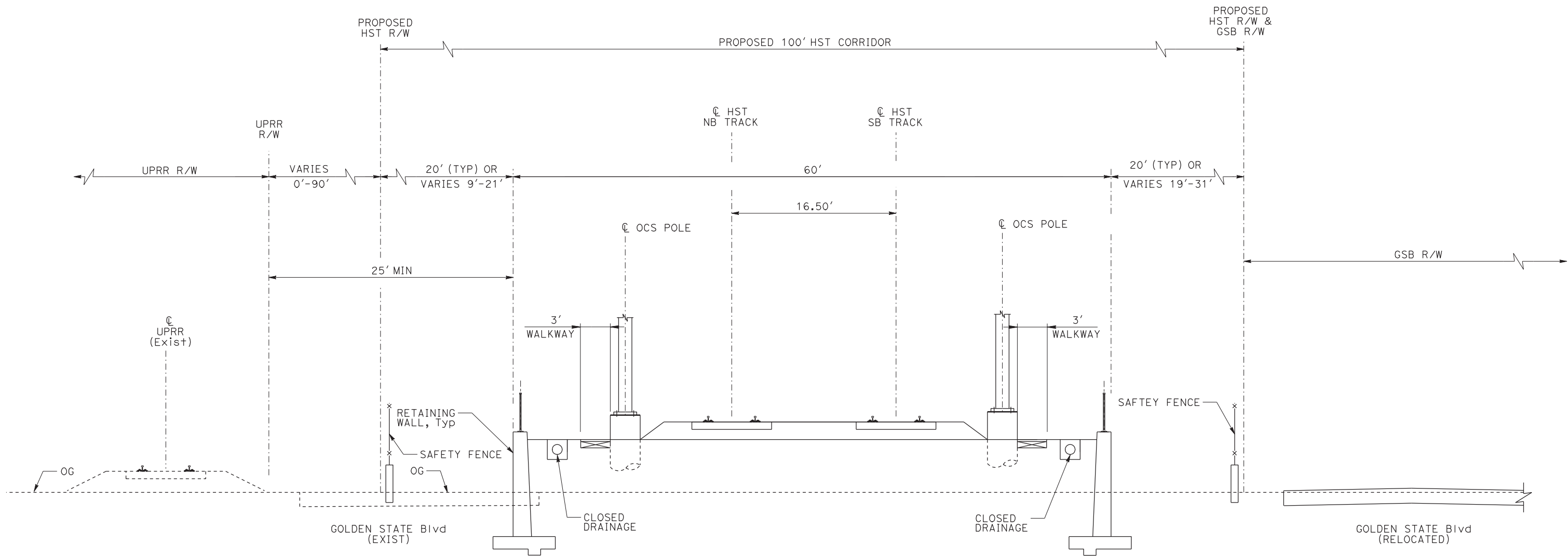
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| DRAWING NO. T3010-A |
| SCALE NO SCALE |
| SHEET NO. |



EL8 - DOUBLE TRACK ELEVATED BETWEEN UPRR AND GOLDEN STATE BOULEVARD

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

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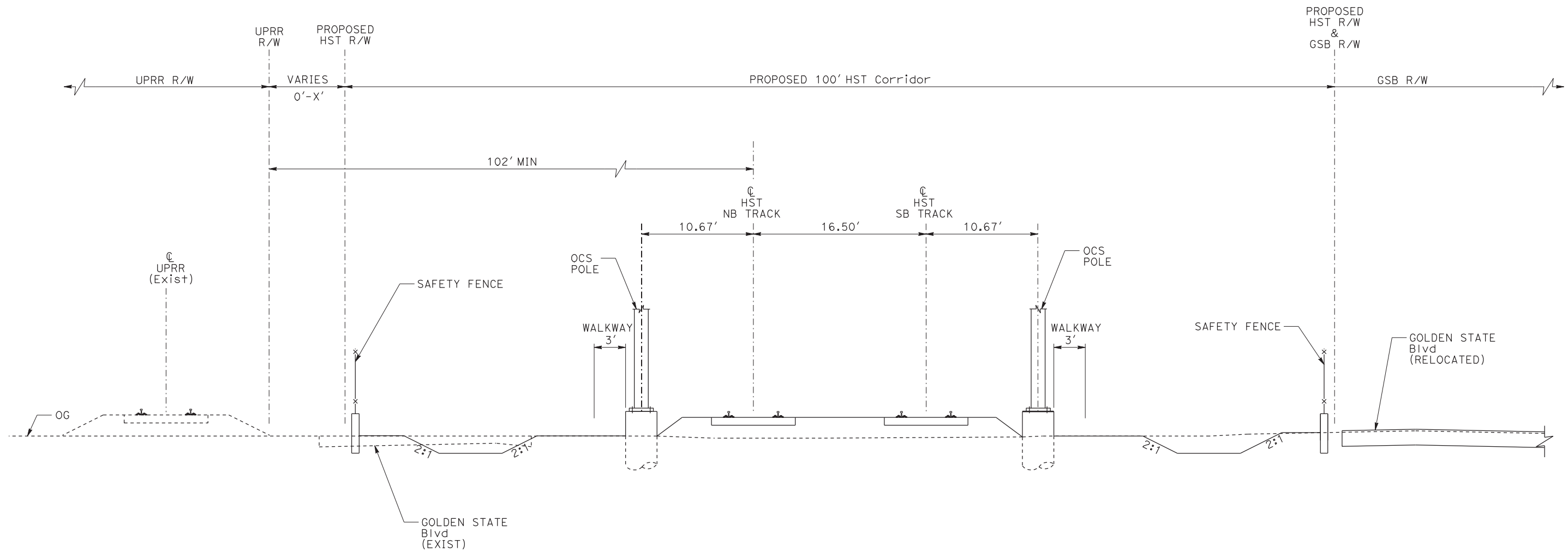
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AG6 - DOUBLE TRACK BETWEEN UPRR AND GOLDEN STATE BOULEVARD

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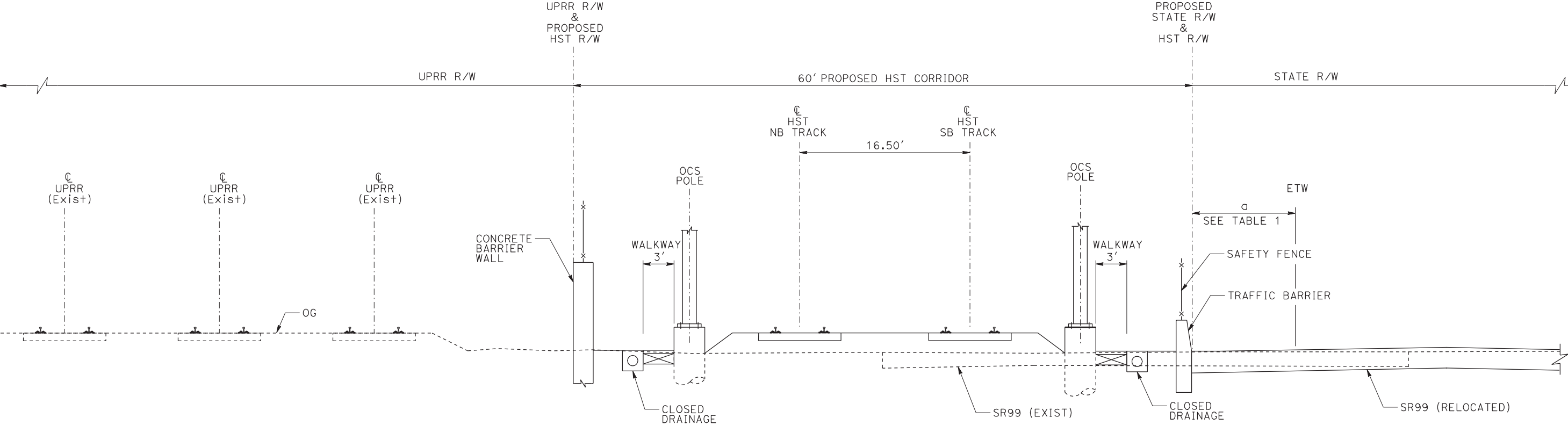
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TABLE 1

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| a > 30' | NO TRAFFIC BARRIER |
| 4' < a < 30' | TRAFFIC BARRIER |



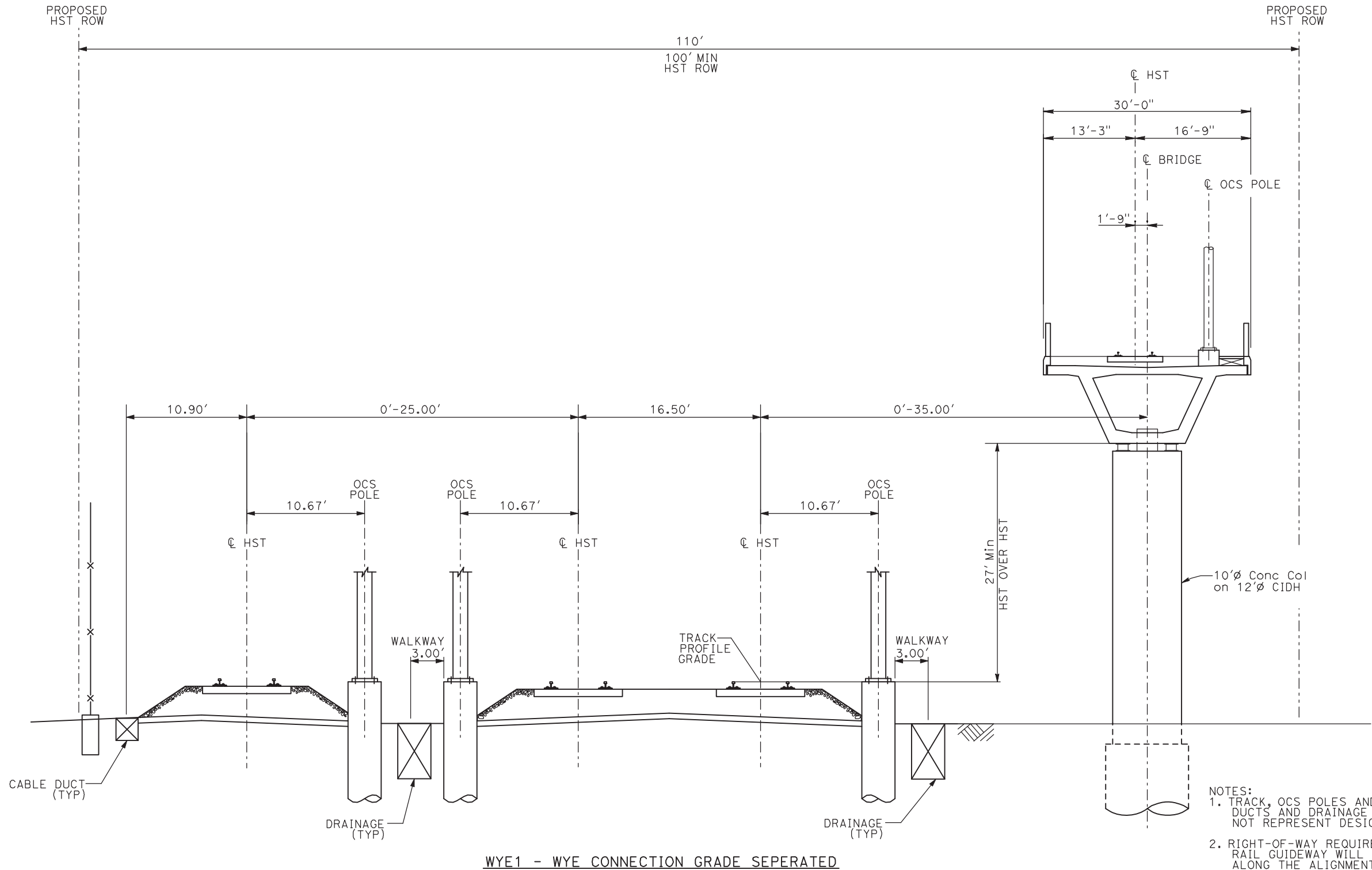
AG7 - DOUBLE TRACK BETWEEN UPRR AND STATE ROUTE 99

NOTE:
POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS.
FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE
ALIGNMENT PLAN AND PROFILE SHEETS.

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|-----|------|----|-----|-----|---------------------------|--|---|---|---|---------------------------|
| | | | | | DESIGNED BY L. PROCTOR | RECORD SET 15% DESIGN SUBMITTAL | AECOM Technical Services, Inc. 2020 L Street, Suite 300 Sacramento, CA 95811 CH2MHILL |  | CALIFORNIA HIGH-SPEED TRAIN PROJECT MERCED TO FRESNO | CONTRACT NO. HSR06-007 |
| | | | | | DRAWN BY S. LEONG | | | | | DRAWING NO. T3014-A |
| | | | | | CHECKED BY V. CHIO | | | | | SCALE NO SCALE |
| | | | | | IN CHARGE J. VALSECCHI | | | | | SHEET NO. |
| REV | DATE | BY | CHK | APP | DESCRIPTION | DATE JULY 2011 | | | | |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



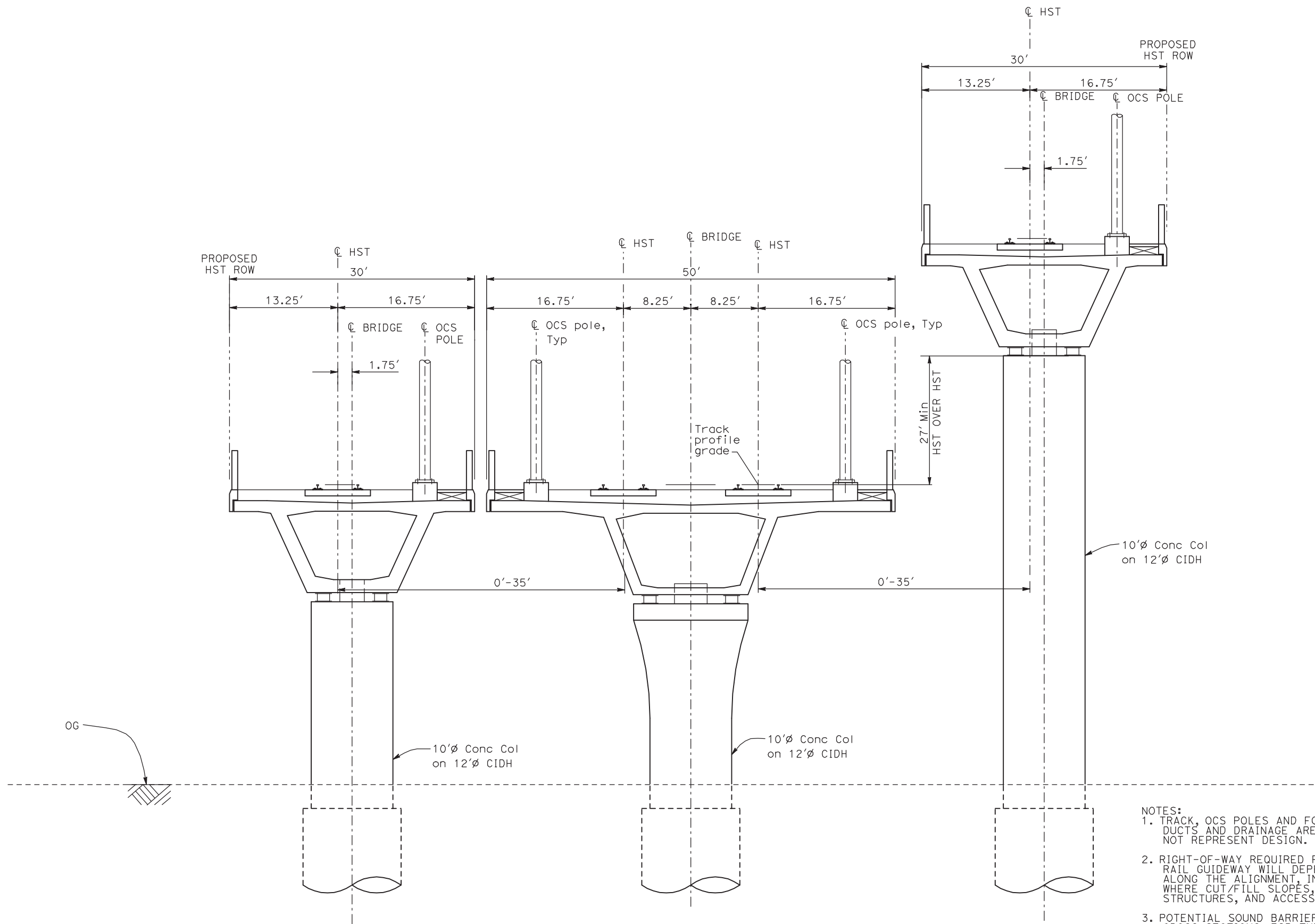
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 15 OF 17

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T3015-A |
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ShieldsA



WYE2 - WYE CONNECTION GRADE SEPERATED

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
 2. RIGHT-OF-WAY REQUIRED FOR THE HIGH-SPEED RAIL GUIDEWAY WILL DEPEND UPON CONDITIONS ALONG THE ALIGNMENT, INCLUDING TERRAIN, WHERE CUT/FILL SLOPES, RETAINING STRUCTURES, AND ACCESS ARE REQUIRED.
 3. POTENTIAL SOUND BARRIERS NOT SHOWN IN CROSS SECTIONS. FOR THE EXTENT OF POTENTIAL SOUND BARRIERS, SEE ALIGNMENT PLAN AND PROFILE SHEETS.

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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

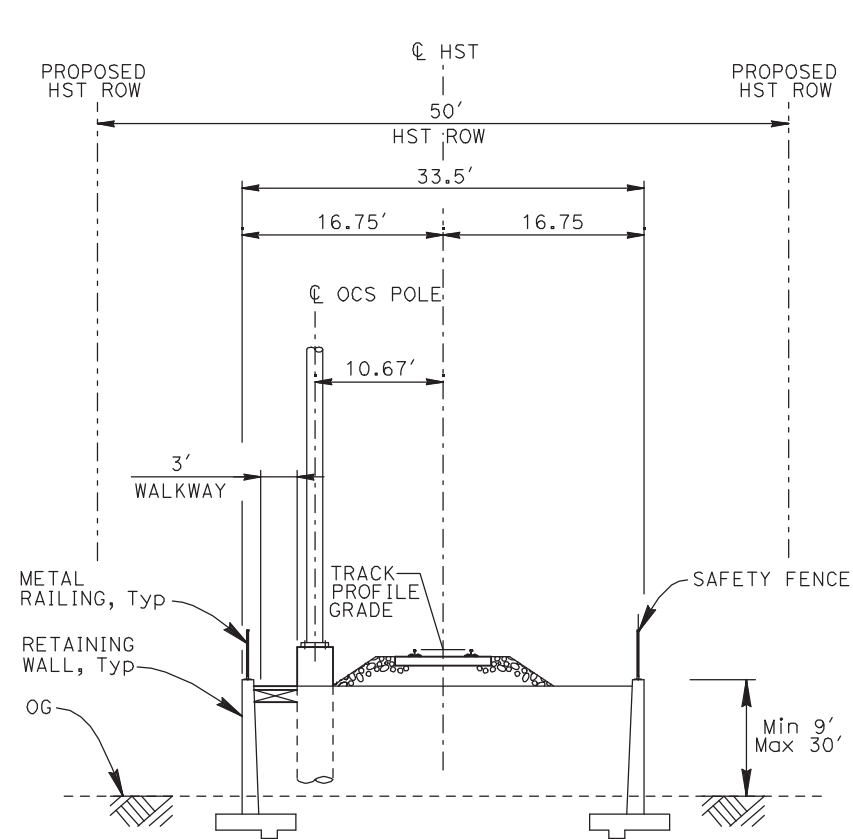
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

TYPICAL SECTIONS
SHEET 16 OF 17

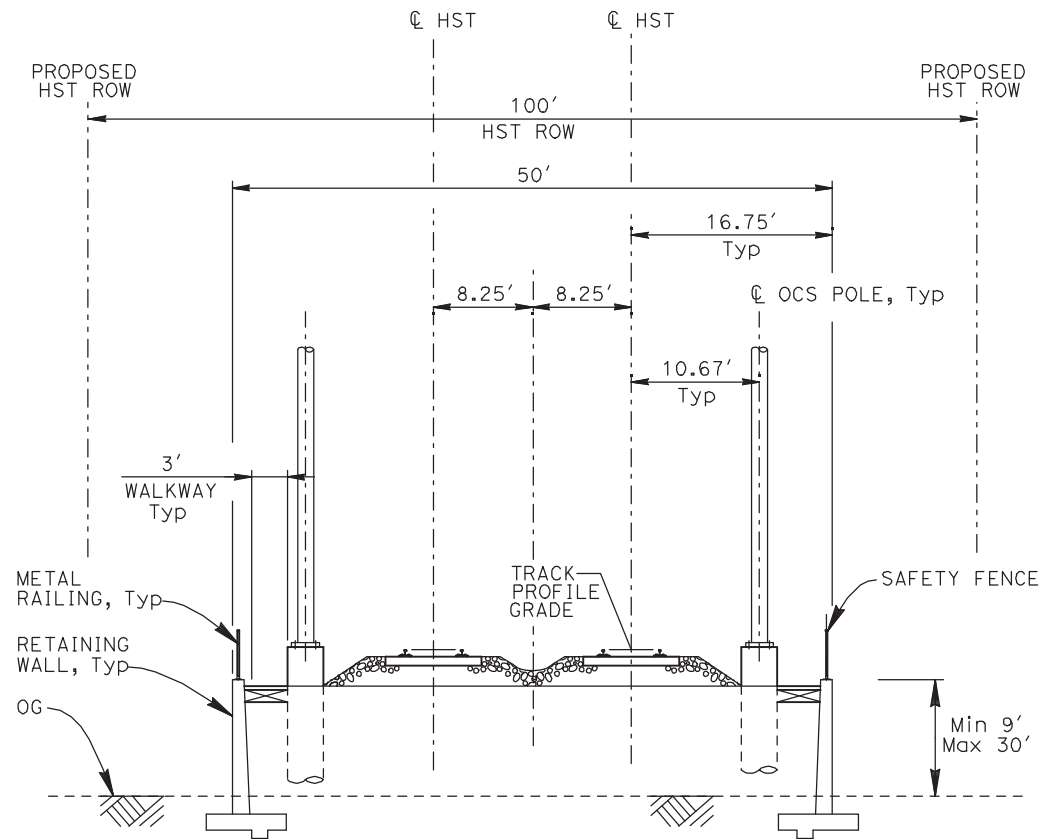
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ShieldsA



RF1 - SINGLE TRACK RETAINED FILL



RF2 - DOUBLE TRACK RETAINED FILL

- NOTES:
1. TRACK, OCS POLES AND FOUNDATIONS, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
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| DESIGNED BY A. SHIELDS |
| DRAWN BY C. VALADAO |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

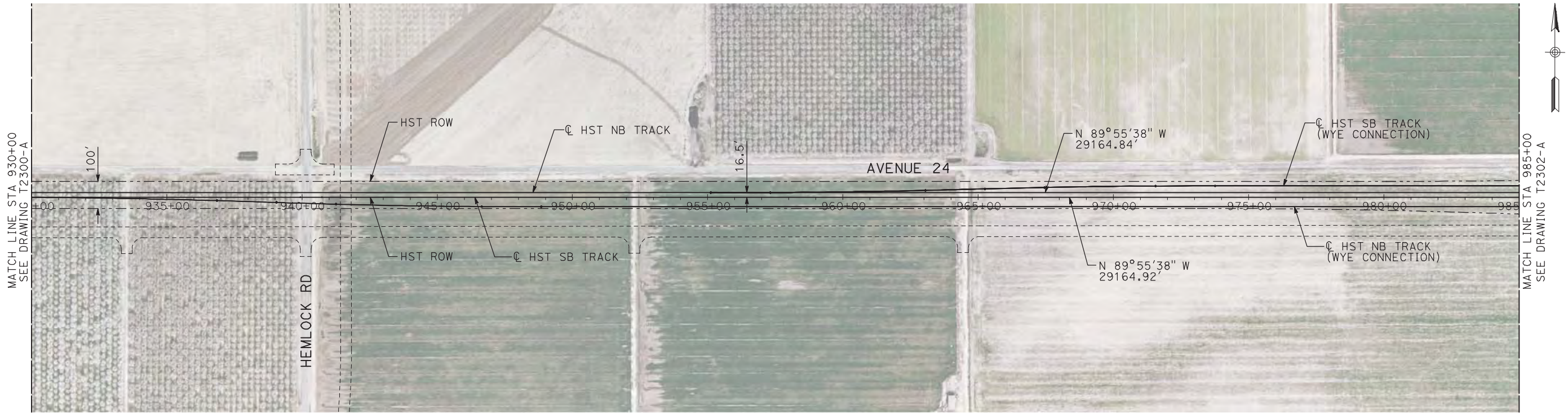


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

TYPICAL SECTIONS
SHEET 17 OF 17

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| DRAWING NO. T3017-A |
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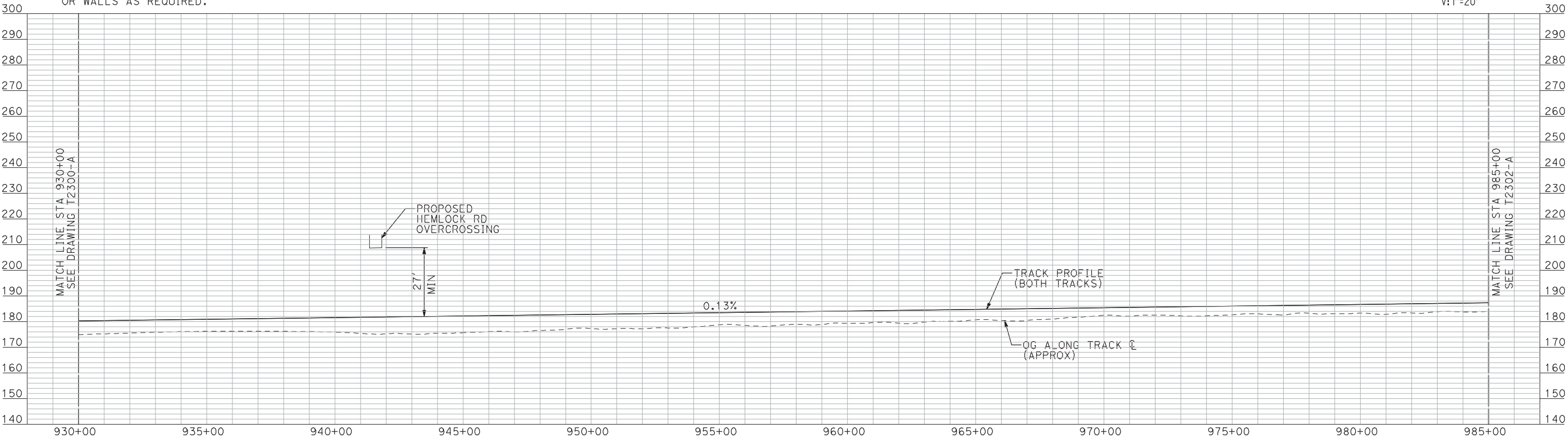
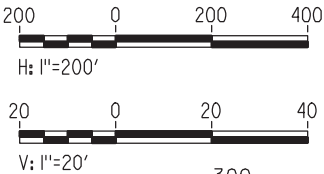
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
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NOT FOR
CONSTRUCTION

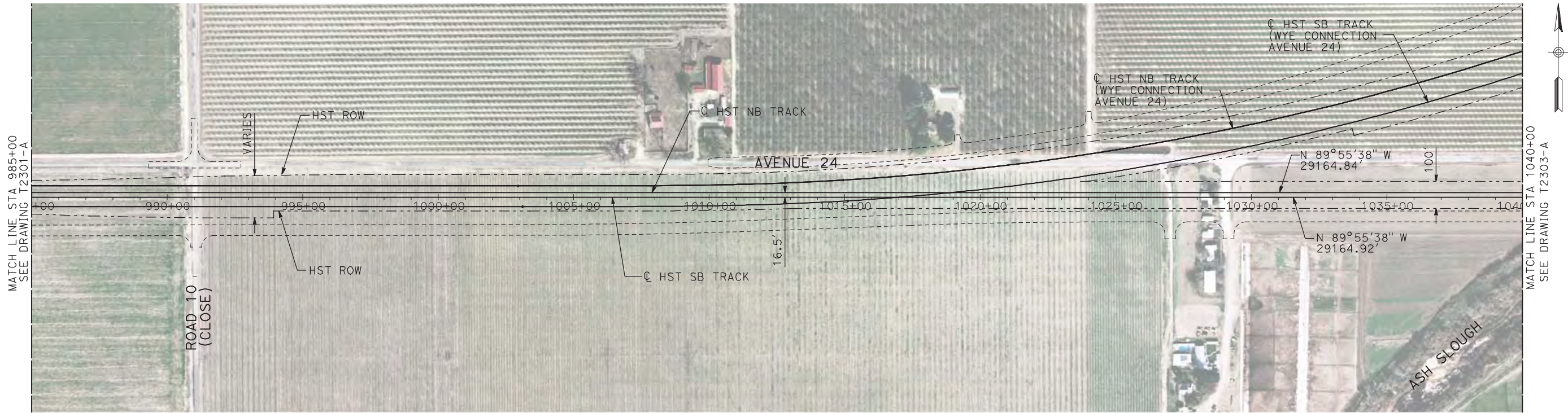


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 930+00 TO STA 985+00

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| DRAWING NO. T2301-A |
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| SHEET NO. ### OF ### |

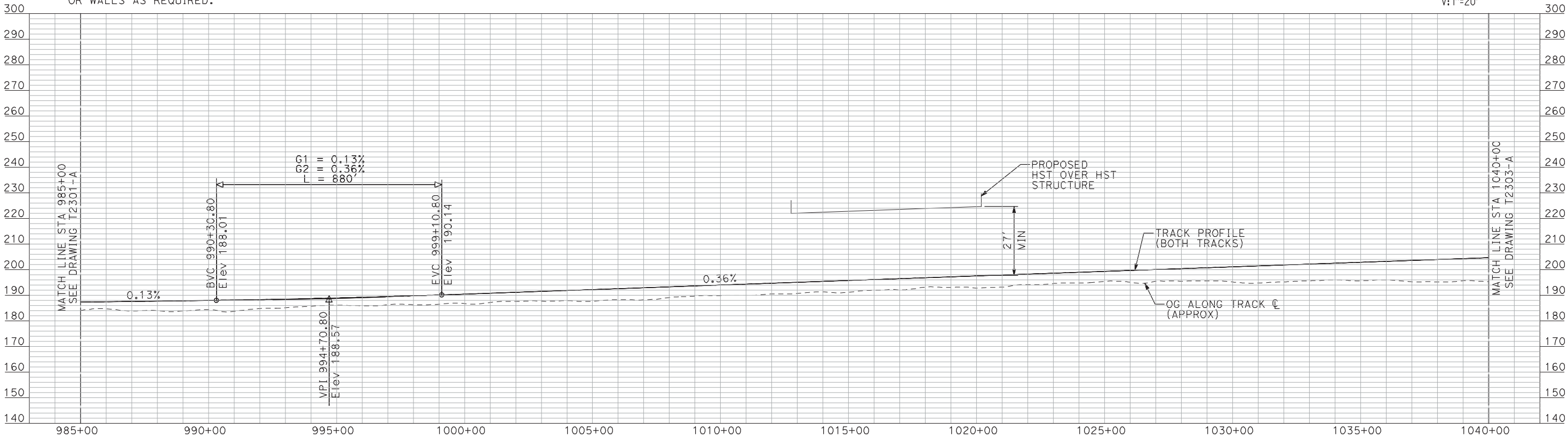
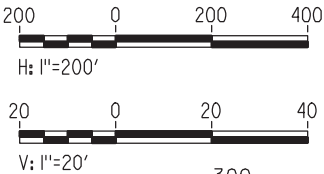
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

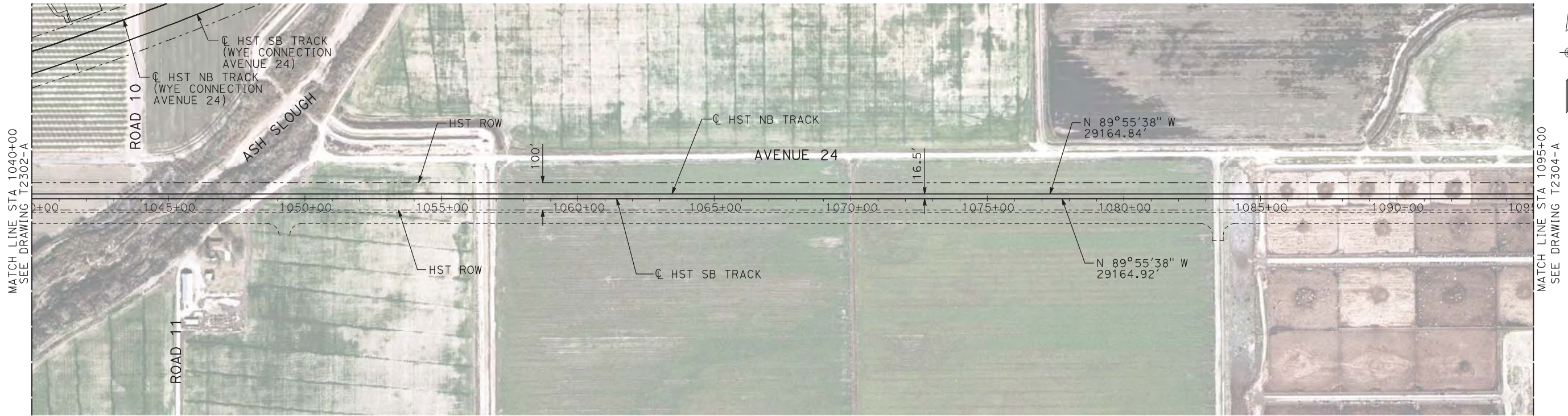
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 985+00 TO STA 1040+00

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| DRAWING NO. T2302A |
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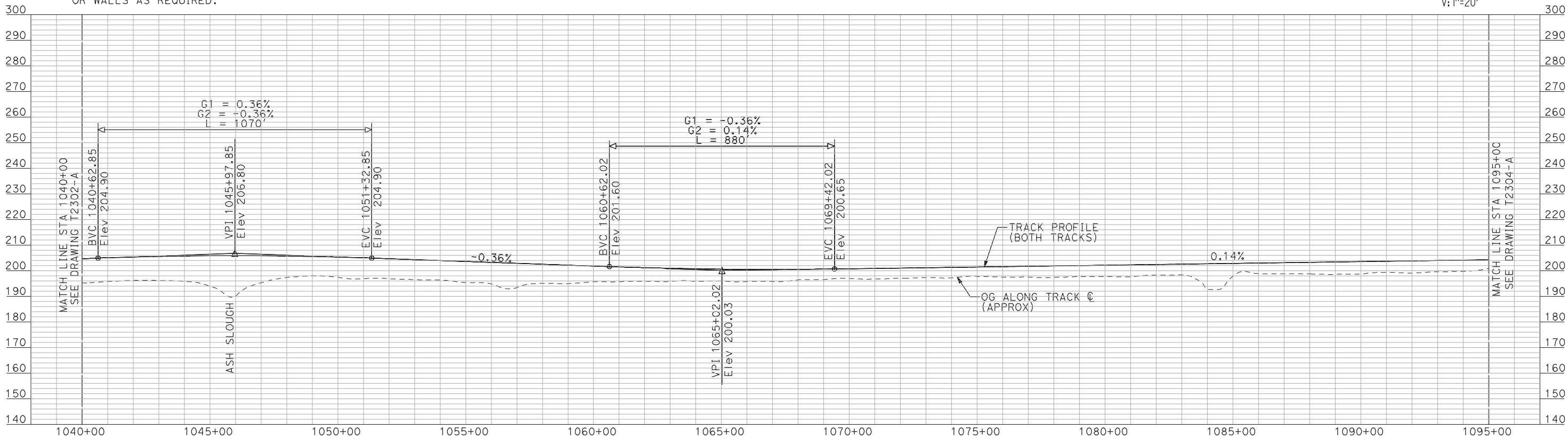
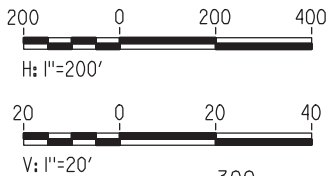
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
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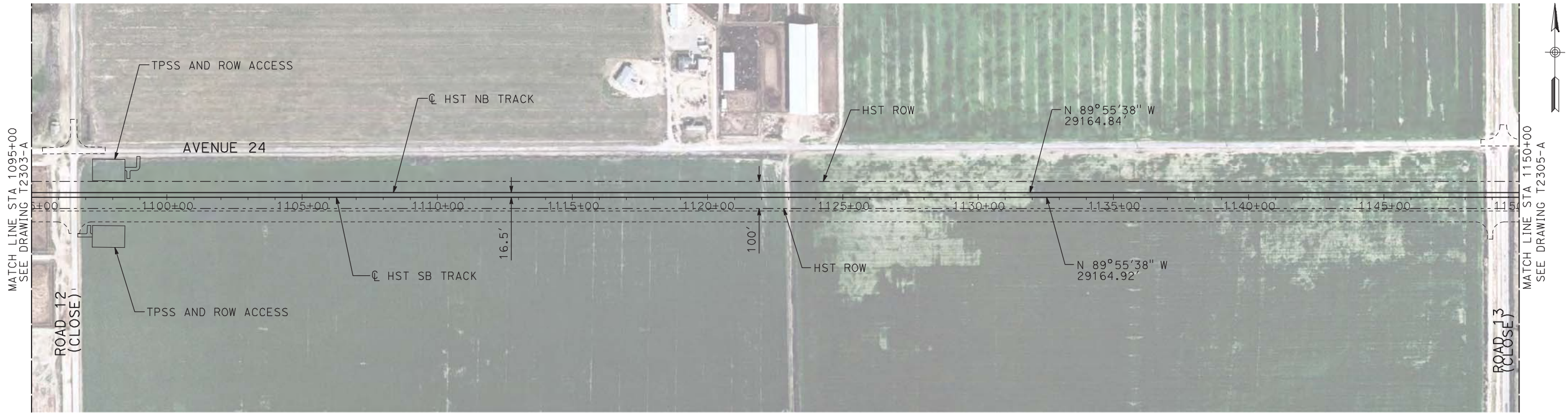


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1040+00 TO STA 1095+00

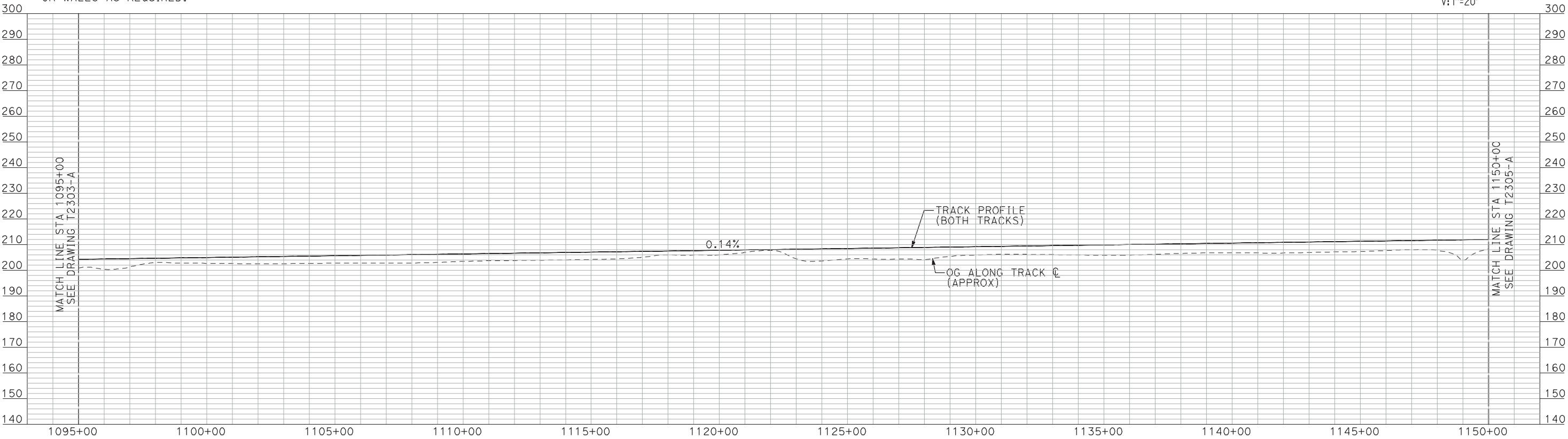
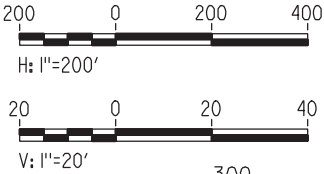
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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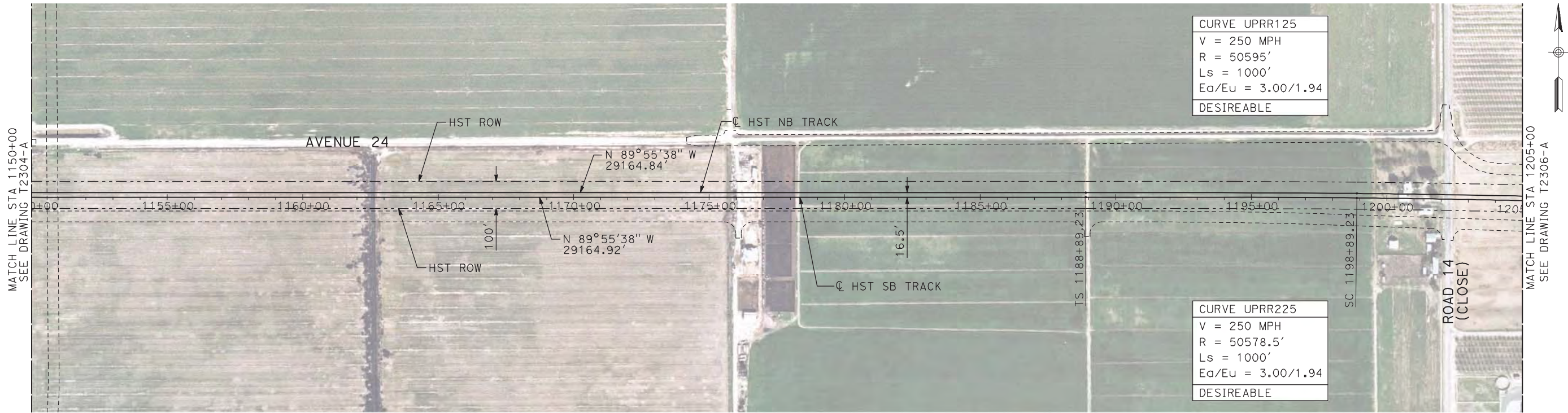


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

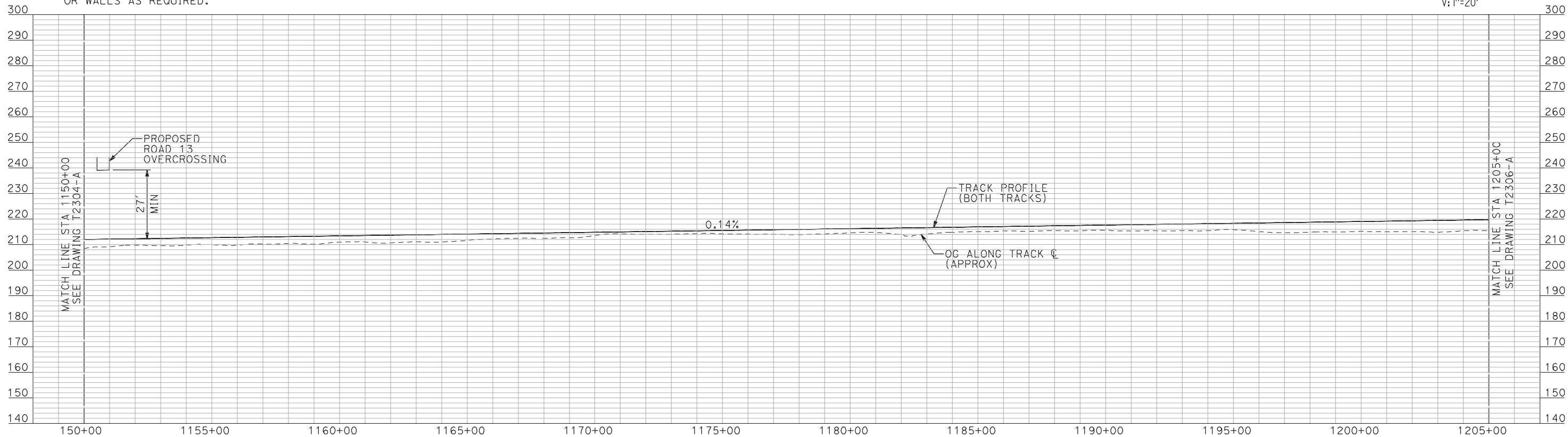
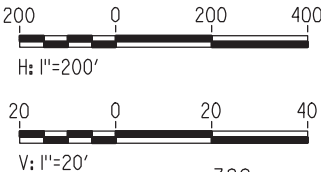
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1095+00 TO STA 1150+00

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| CONTRACT NO. HSR06-007 |
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- NOTES:
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"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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Sacramento, CA 95811

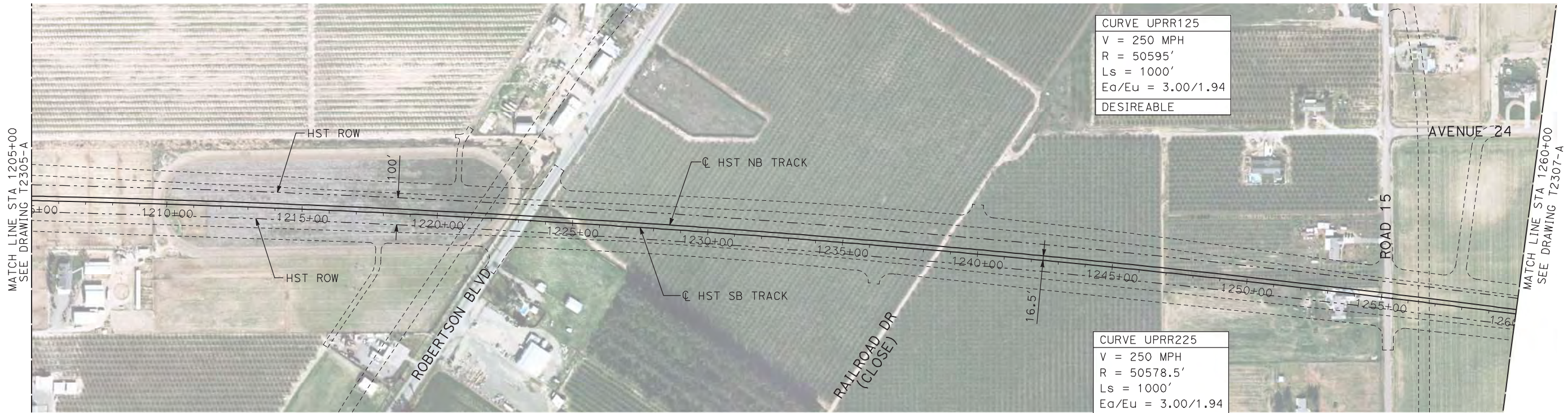
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1150+00 TO STA 1205+00

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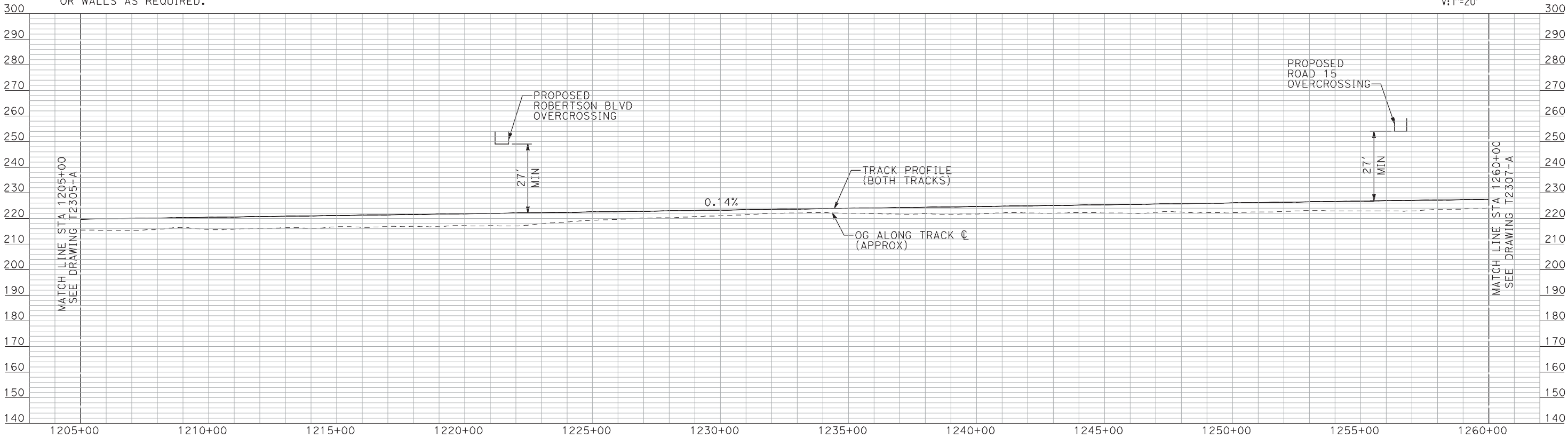
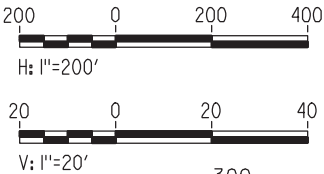
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DATE 07/20/2011 |

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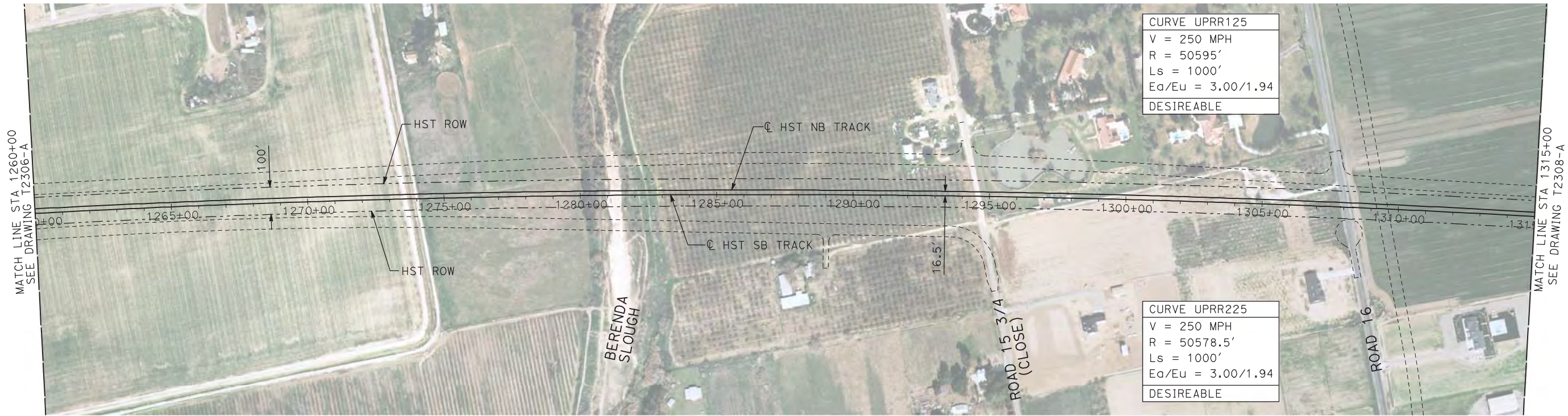
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1205+00 TO STA 1260+00

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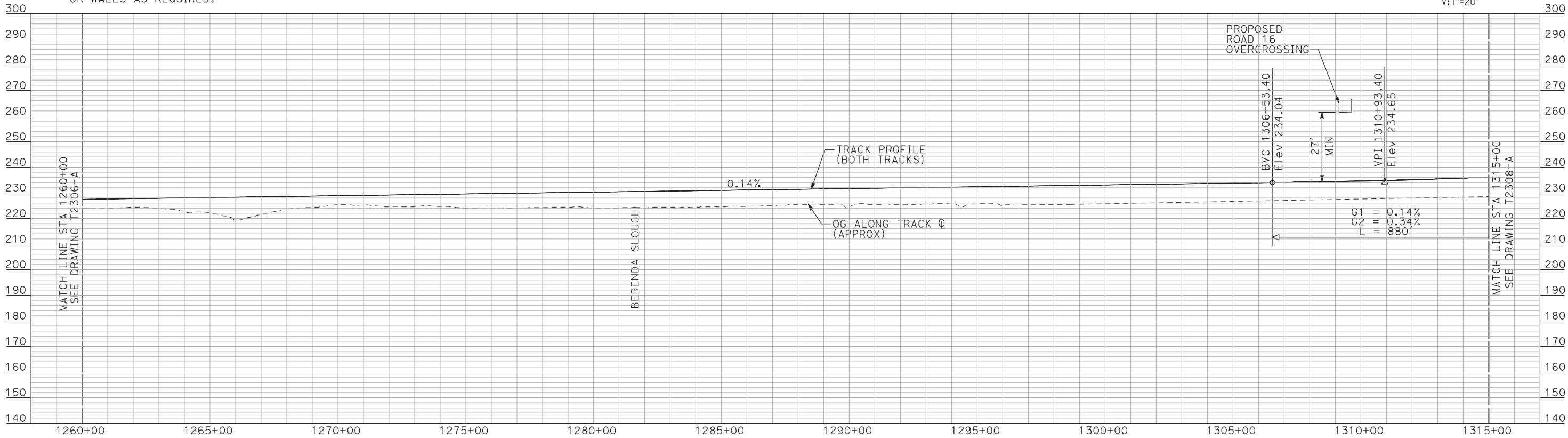
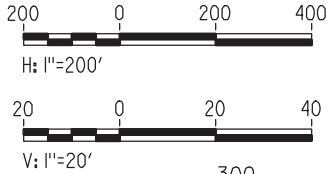
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
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| DATE 07/20/2011 |

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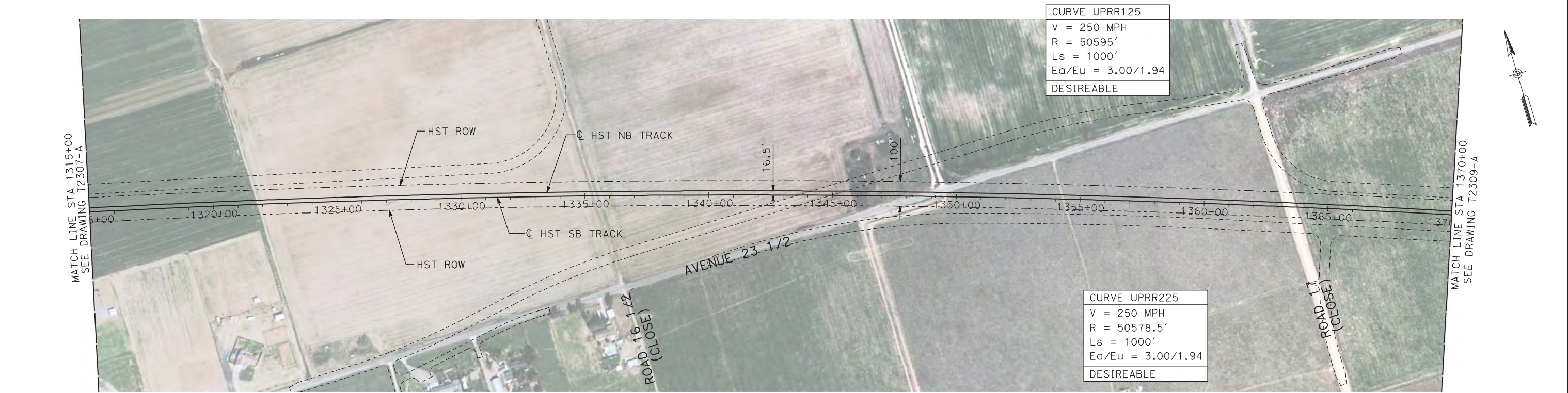
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 ALIGNMENT
AVENUE 24
PLAN AND PROFILE
STA 1260+00 TO STA 1315+00

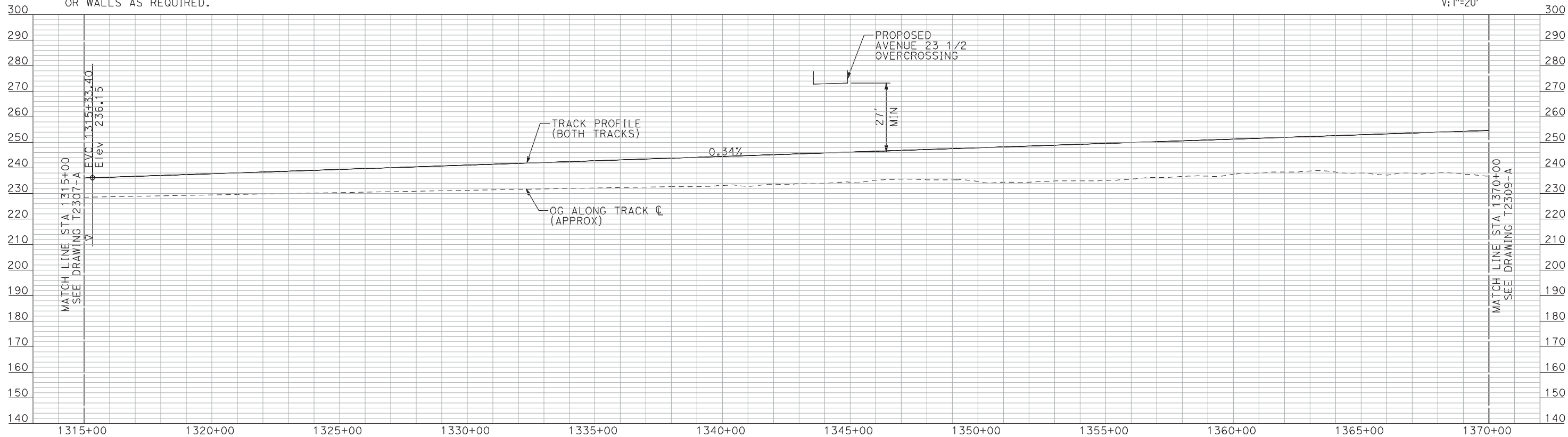
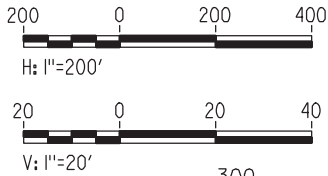
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- NOTES:
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PLAN



PROFILE

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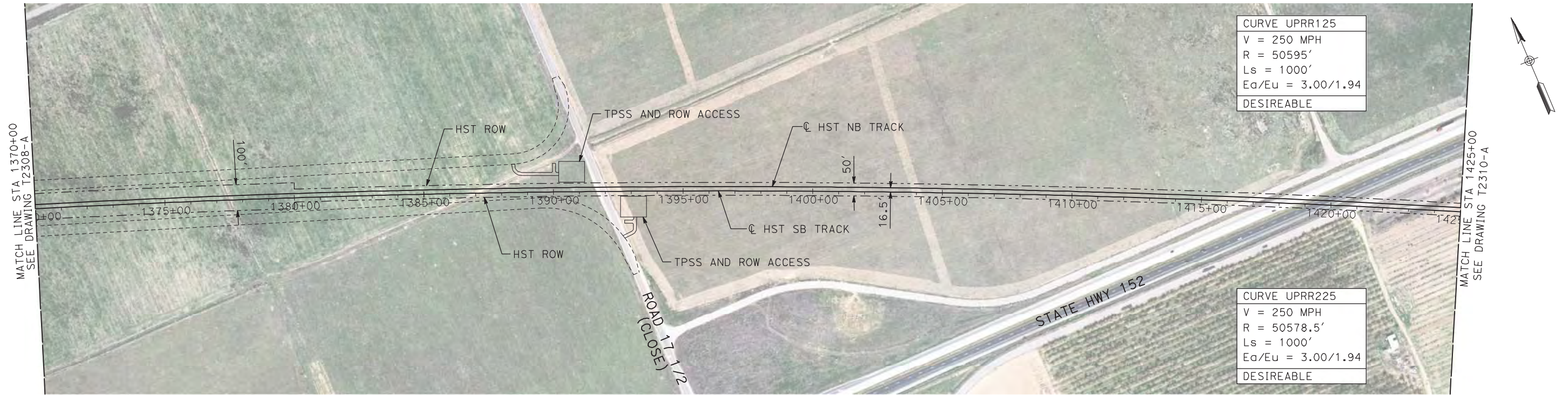
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
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PLAN AND PROFILE
STA 1315+00 TO STA 1370+00

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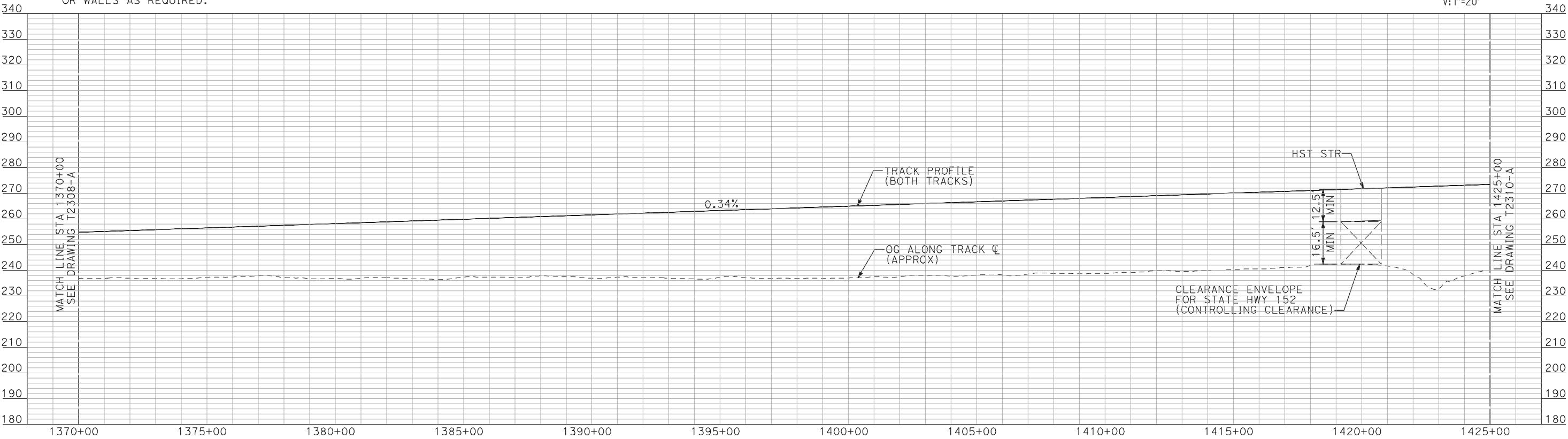
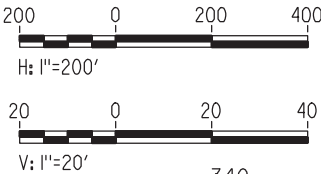
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

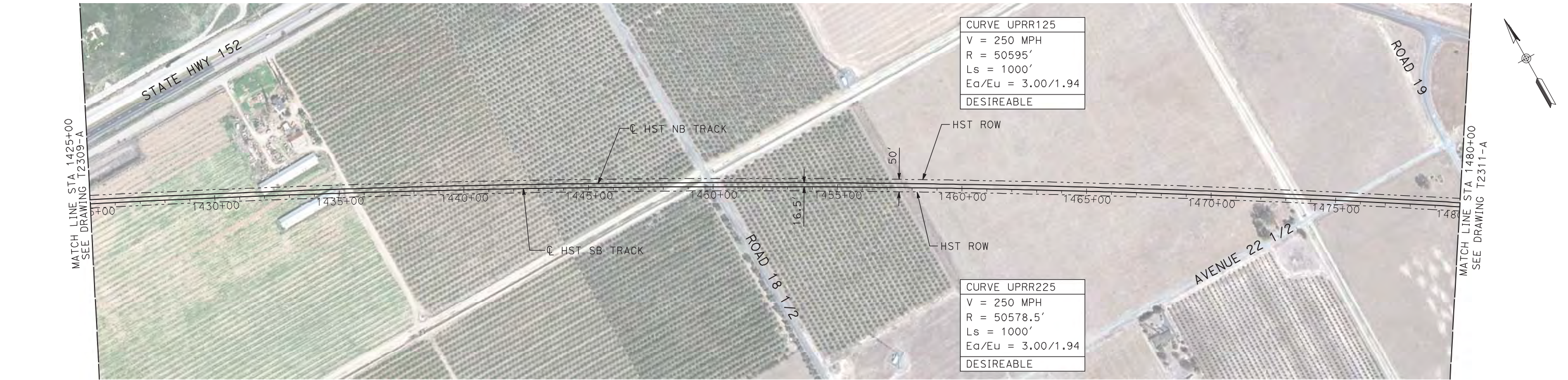
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1370+00 TO STA 1425+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2309-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

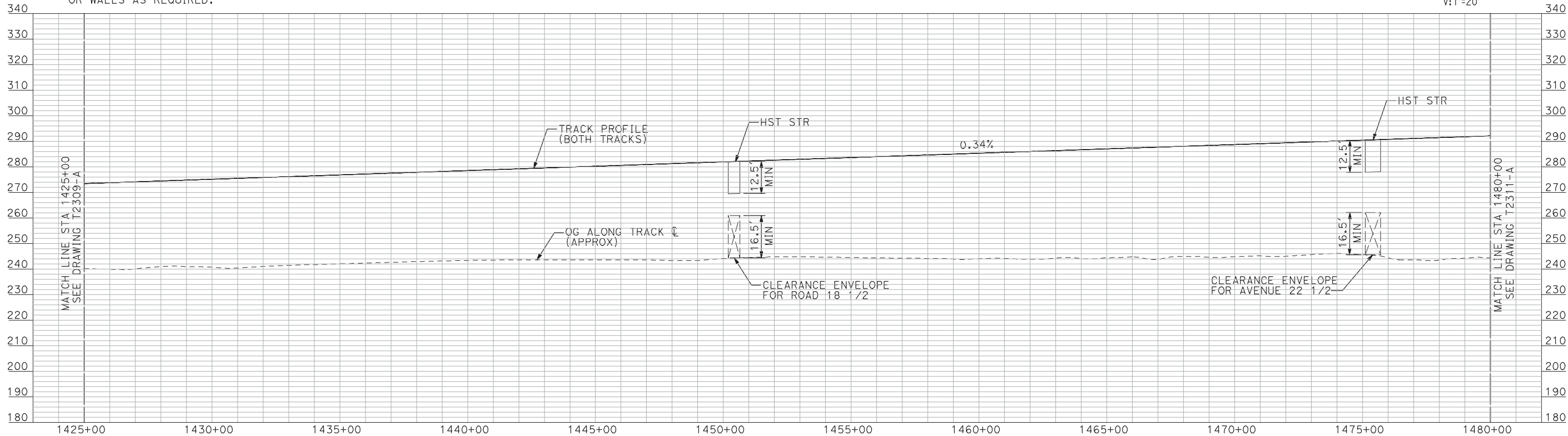
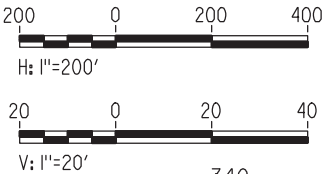
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

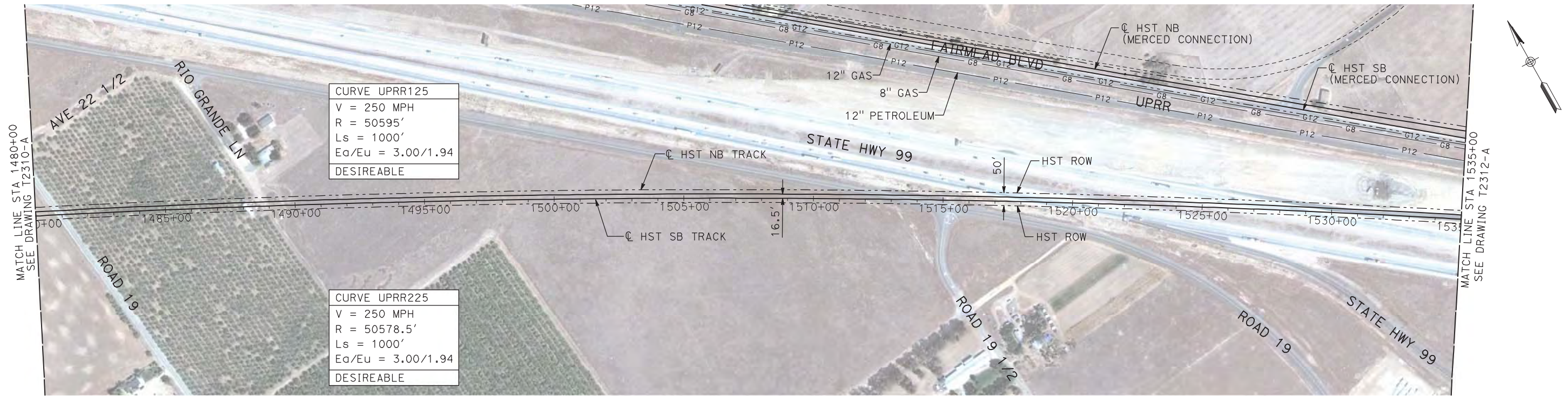


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1425+00 TO STA 1480+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2310-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

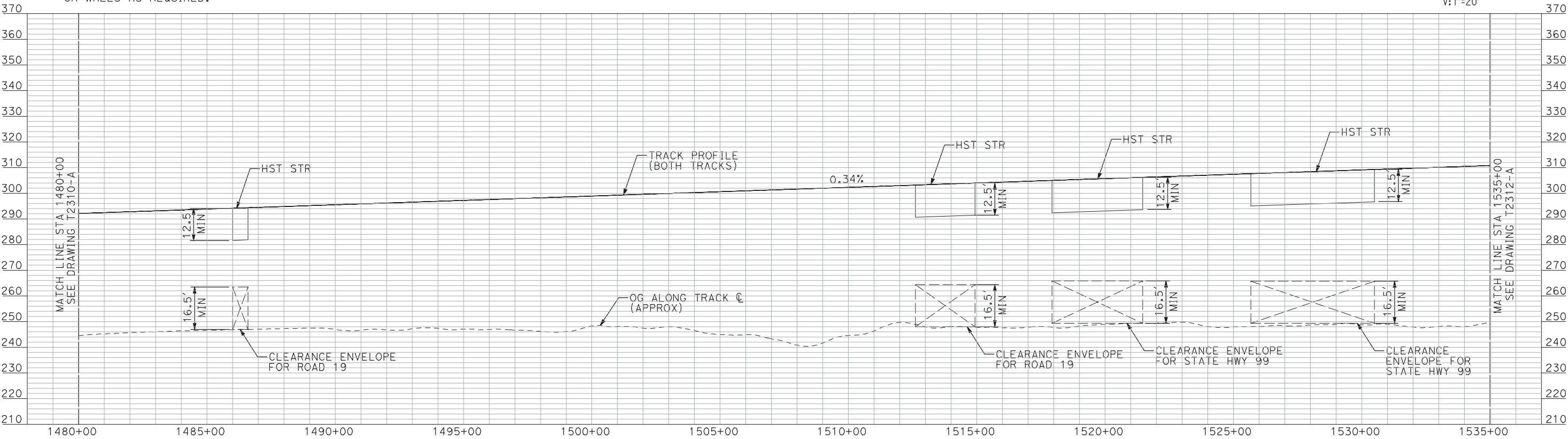
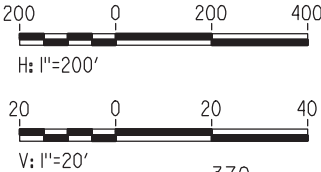
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

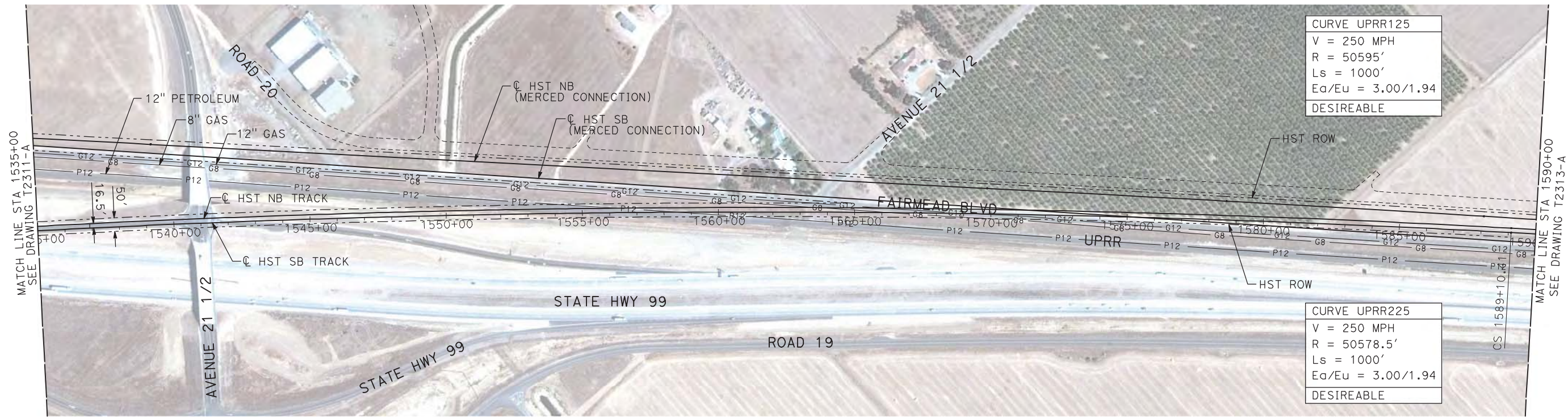
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CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1480+00 TO STA 1535+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2311-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

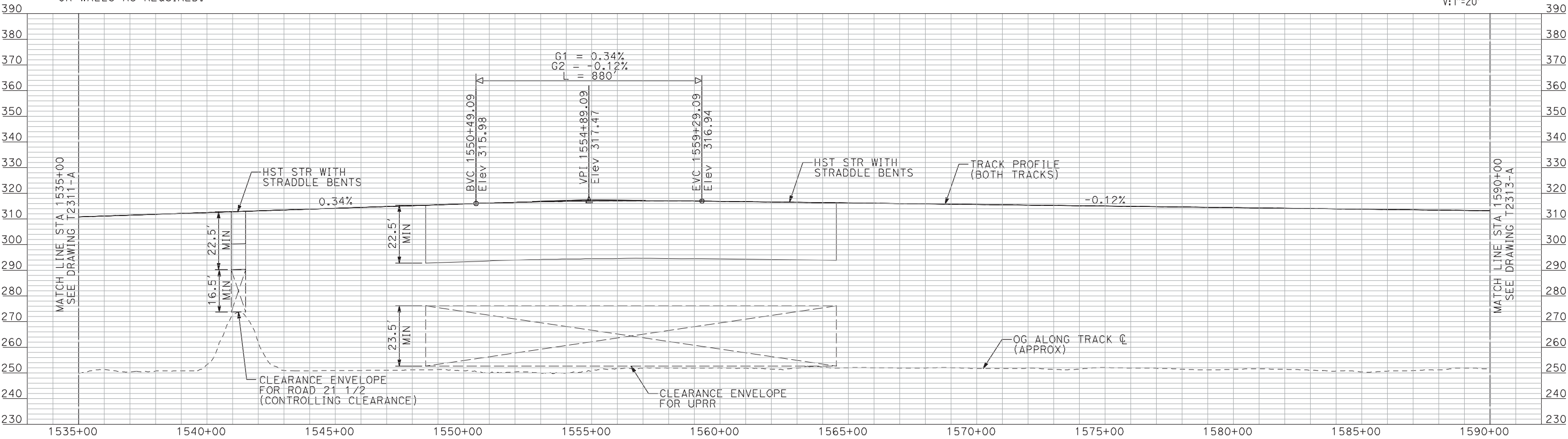
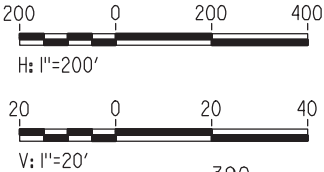
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

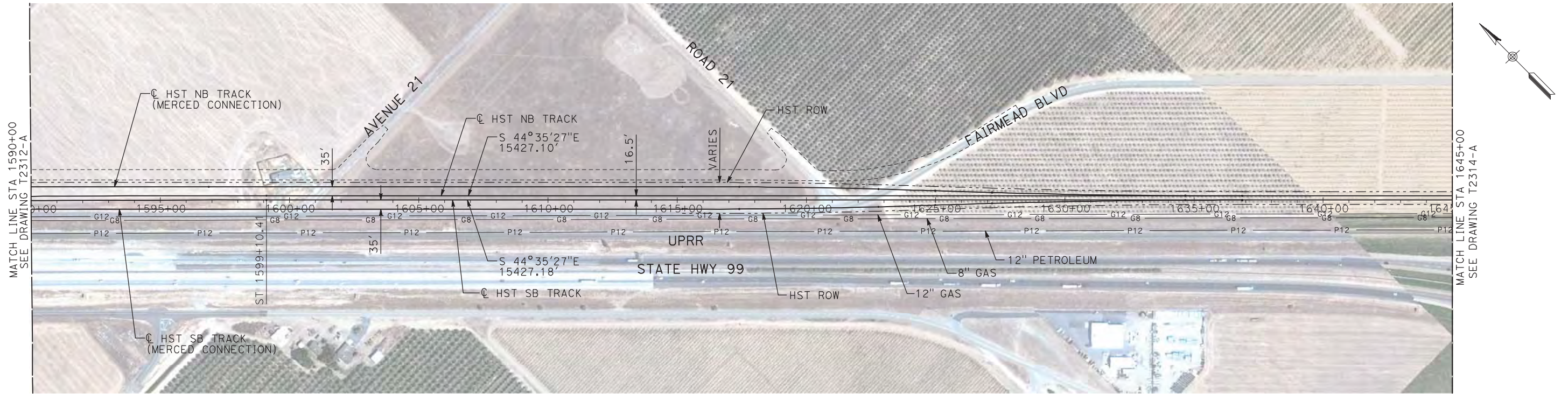
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1535+00 TO STA 1590+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2312-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

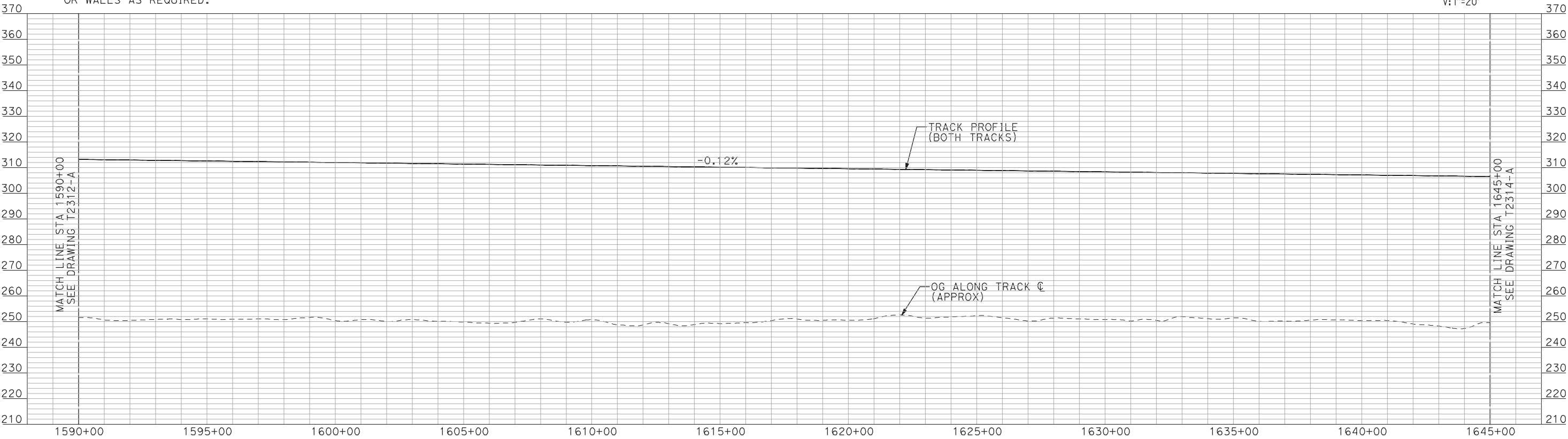
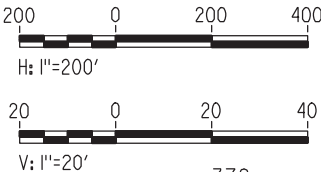
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

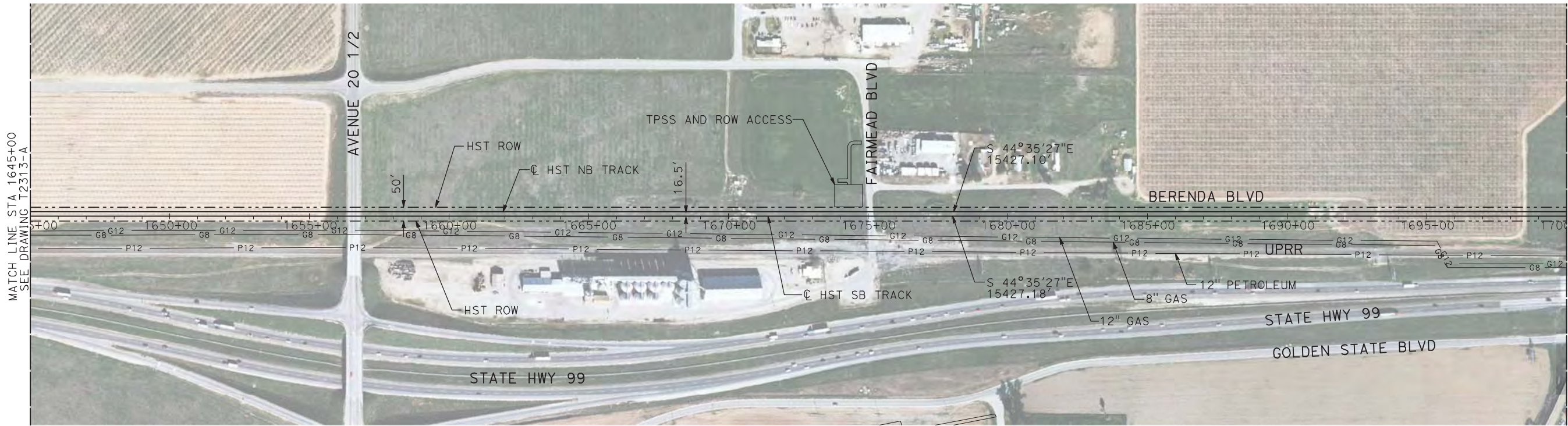


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1590+00 TO STA 1645+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2313-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

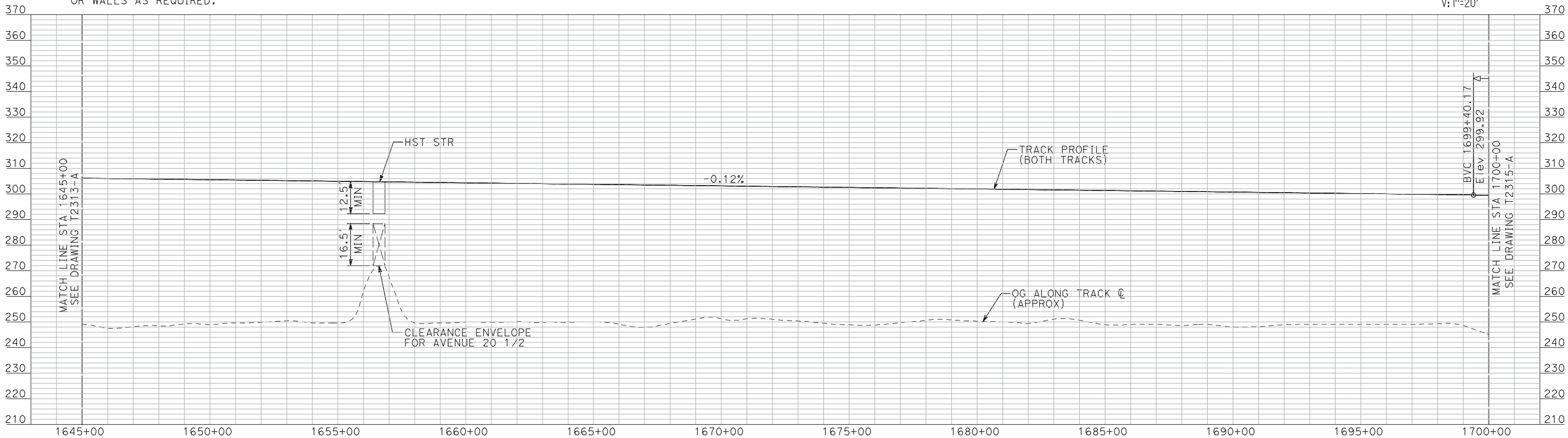
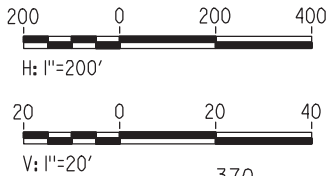
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

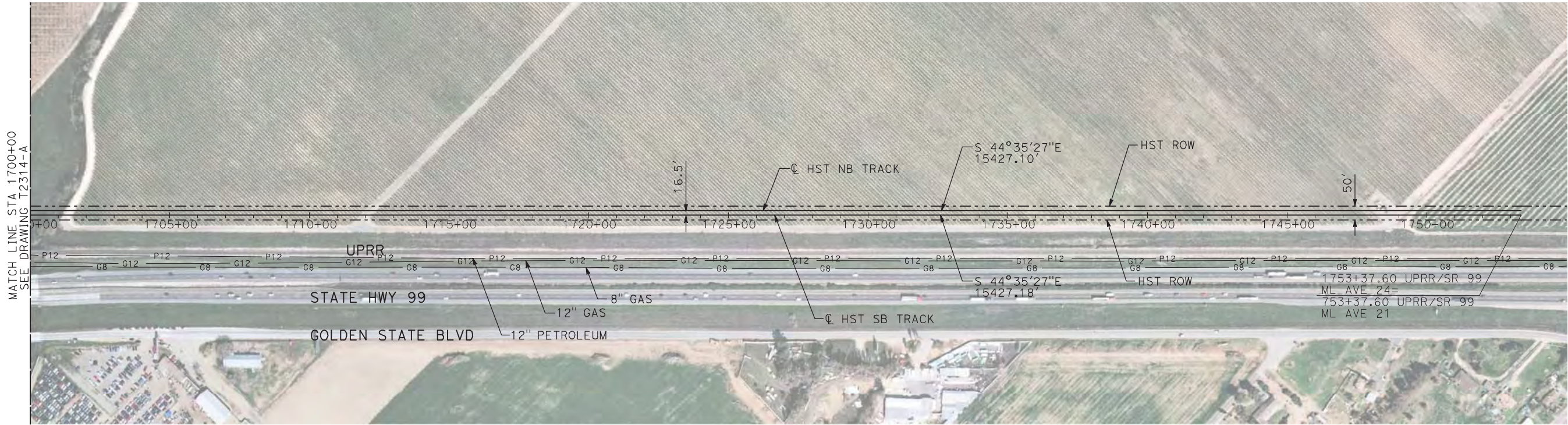
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1645+00 TO STA 1700+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2314-A
SCALE
AS SHOWN
SHEET NO.
OF

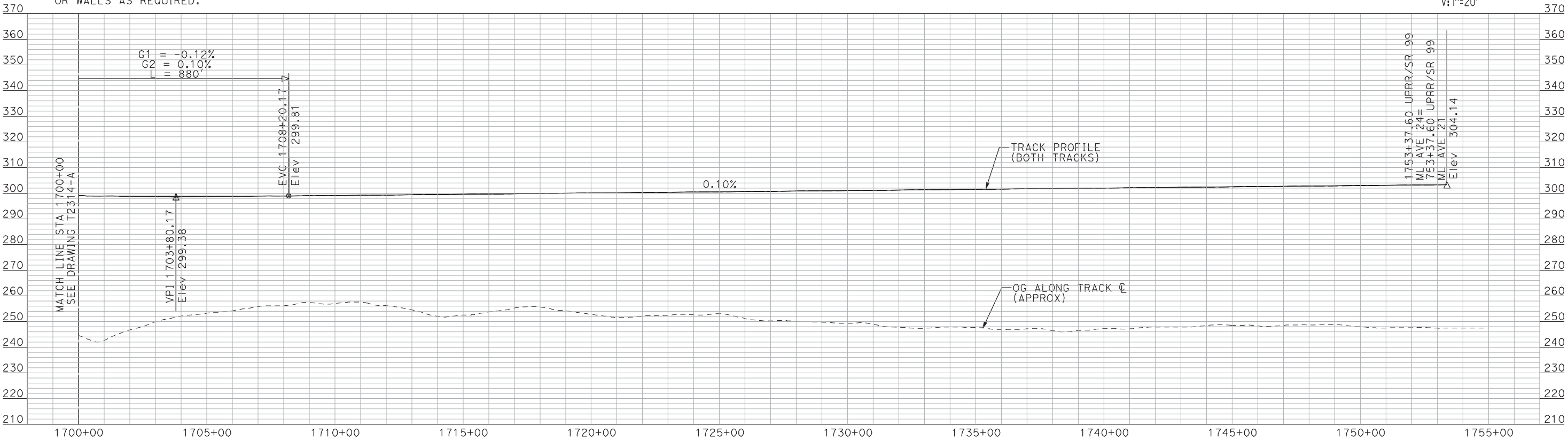
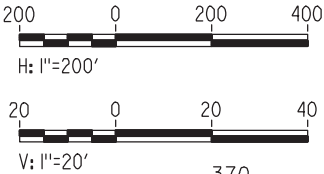
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

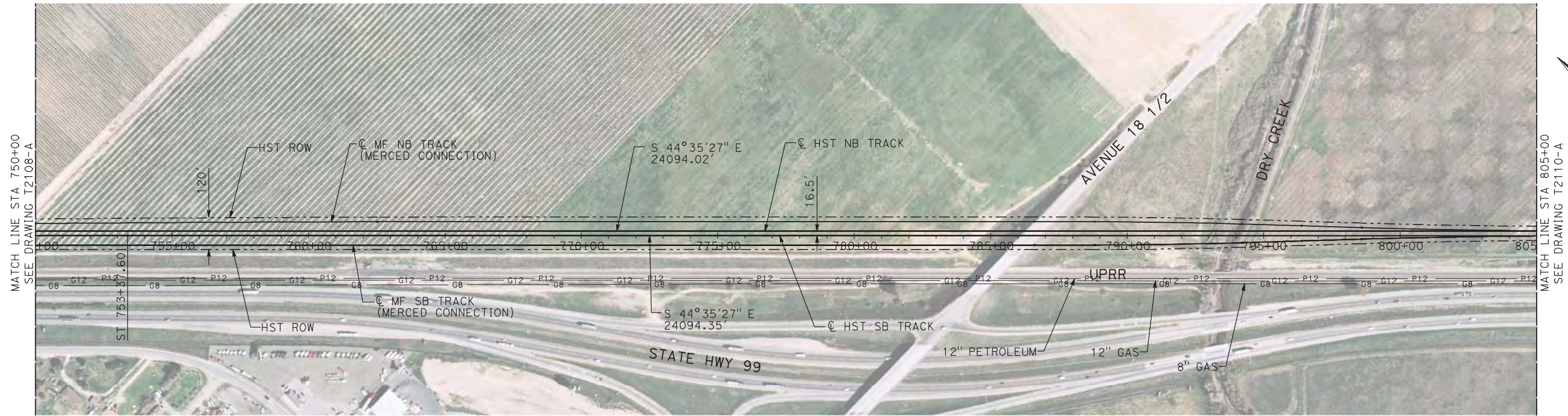
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1700+00 TO STA 1753+37.60

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2315-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

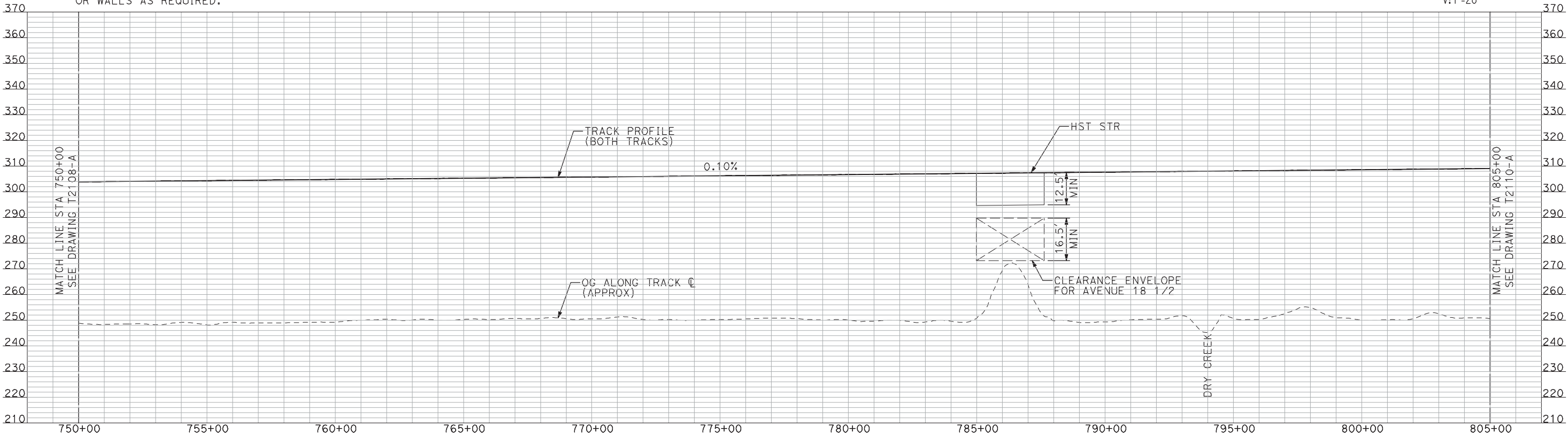
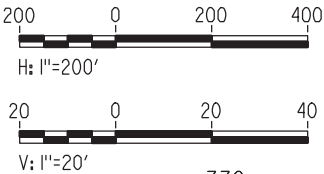
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

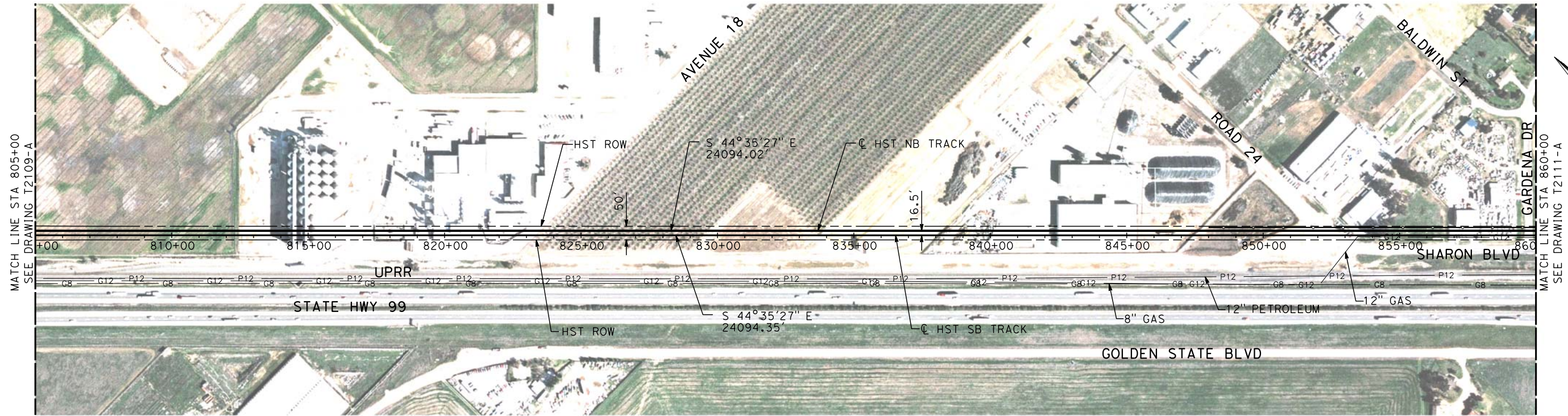


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 750+00 TO STA 805+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2109-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

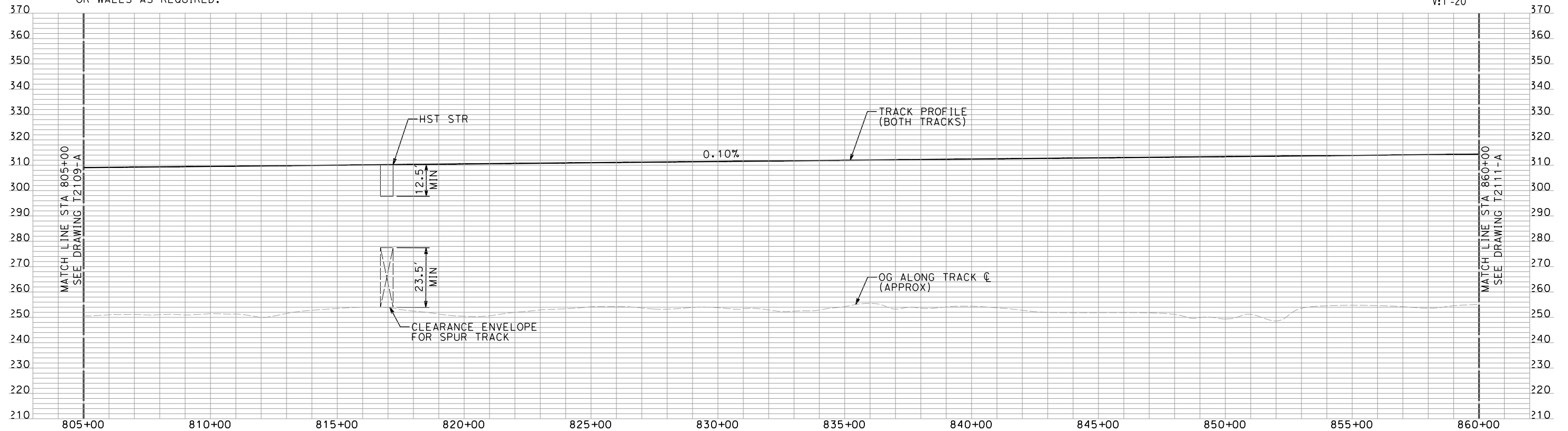
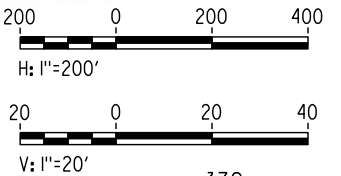
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

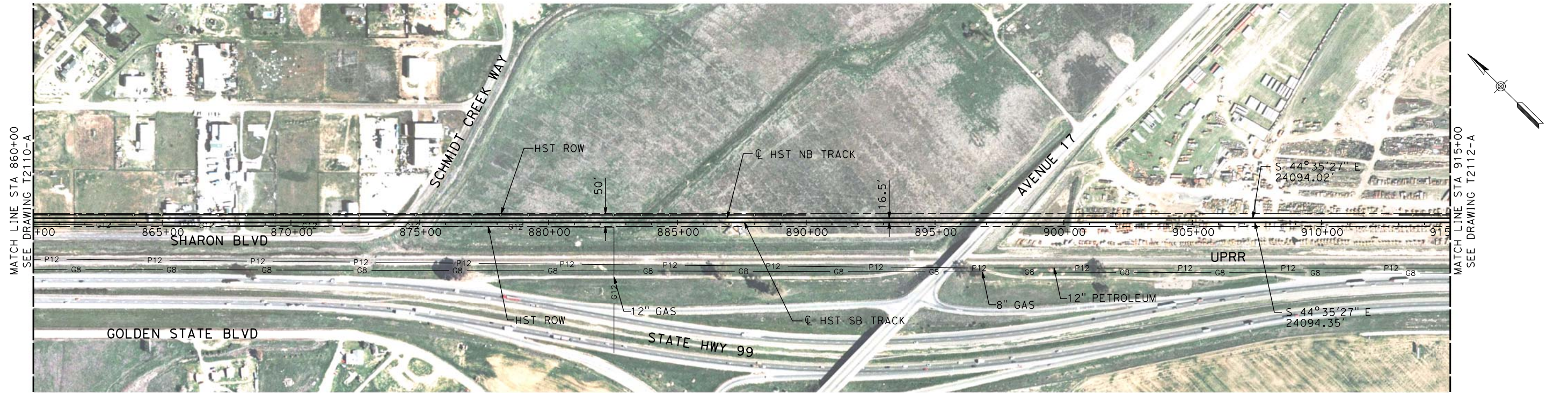


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 805+00 TO STA 860+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2110-A |
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| SHEET NO. ### OF ### |

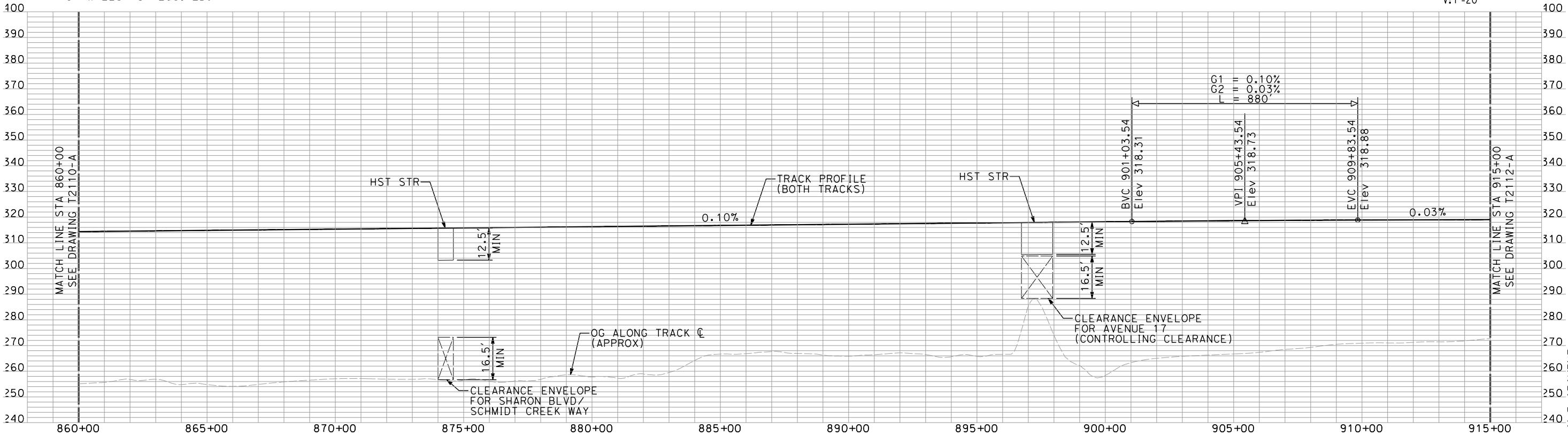
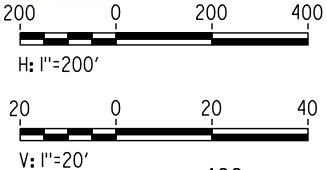
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shieldsa



NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

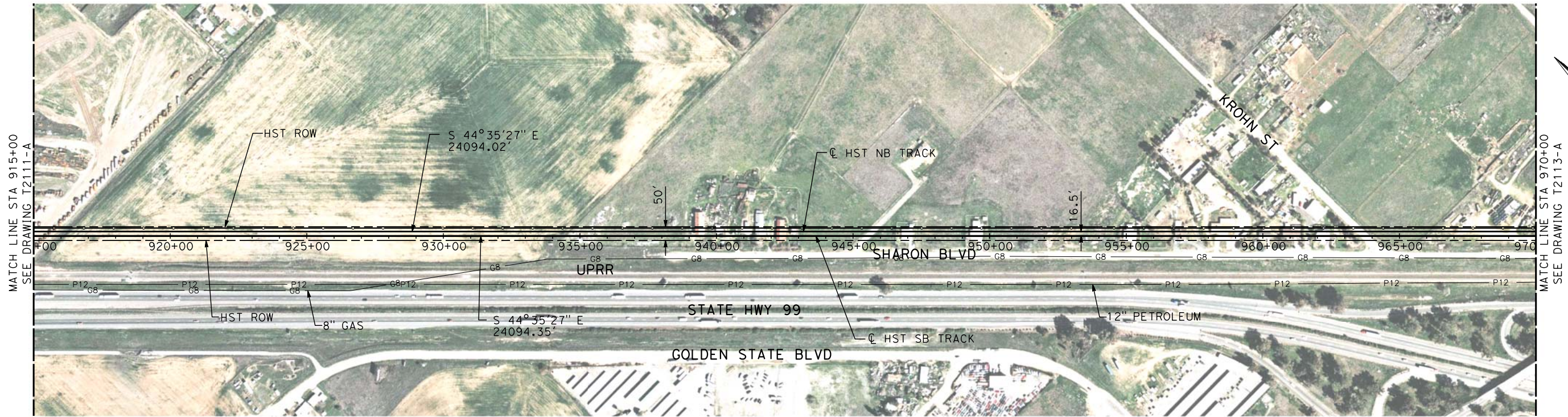


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 860+00 TO STA 915+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2111-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

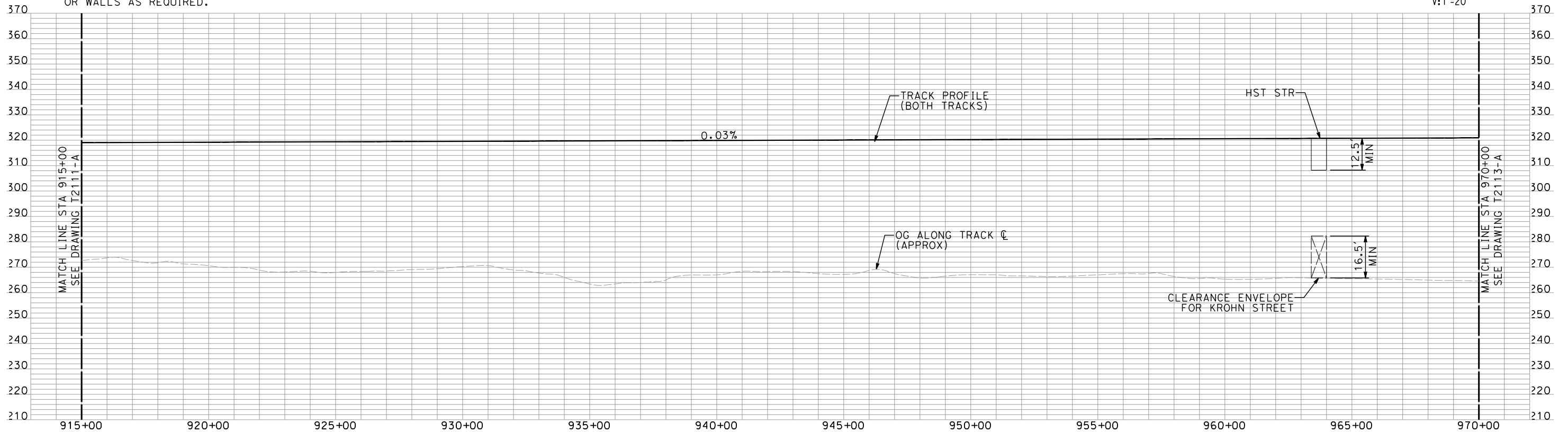
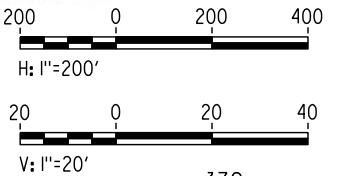
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shieldsa



NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

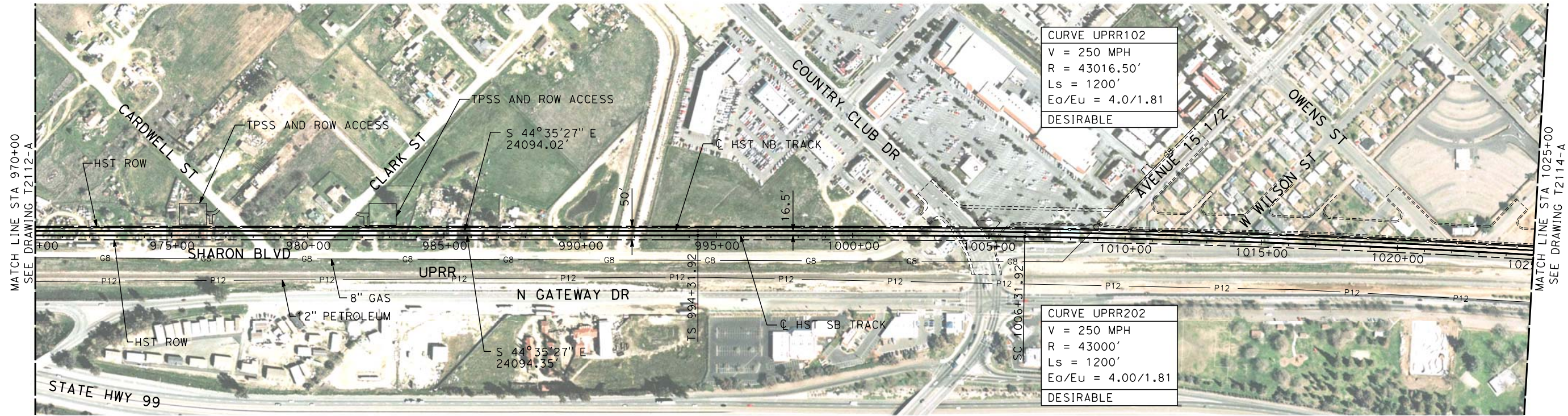


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 915+00 TO STA 970+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2112-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

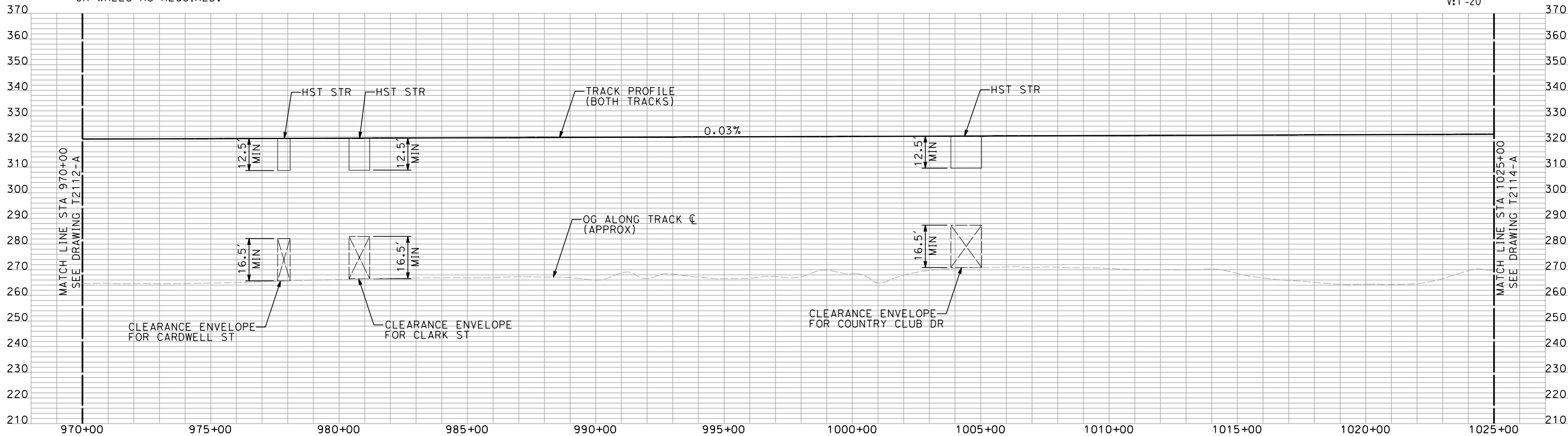
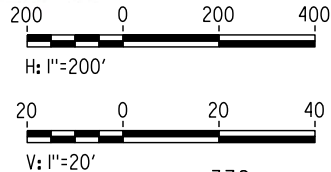
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 970+00 TO STA 1025+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2113-A
SCALE
AS SHOWN
SHEET NO.
OF

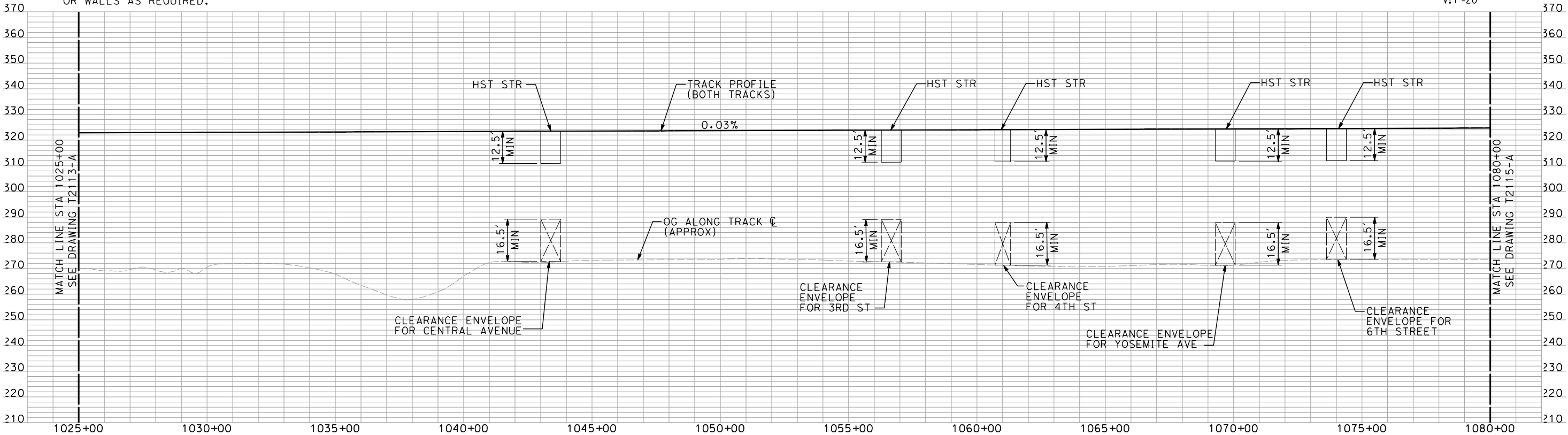
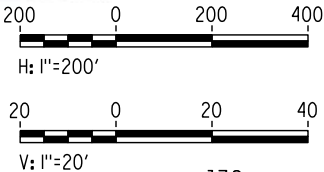
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shieldsa



NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

| |
|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

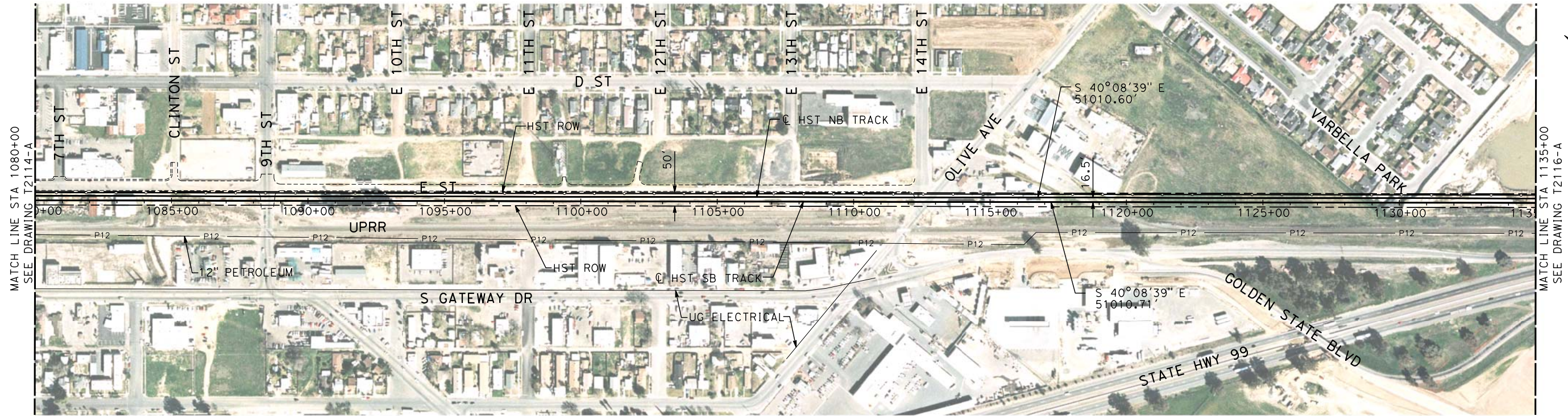


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1025+00 TO STA 1080+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2114-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

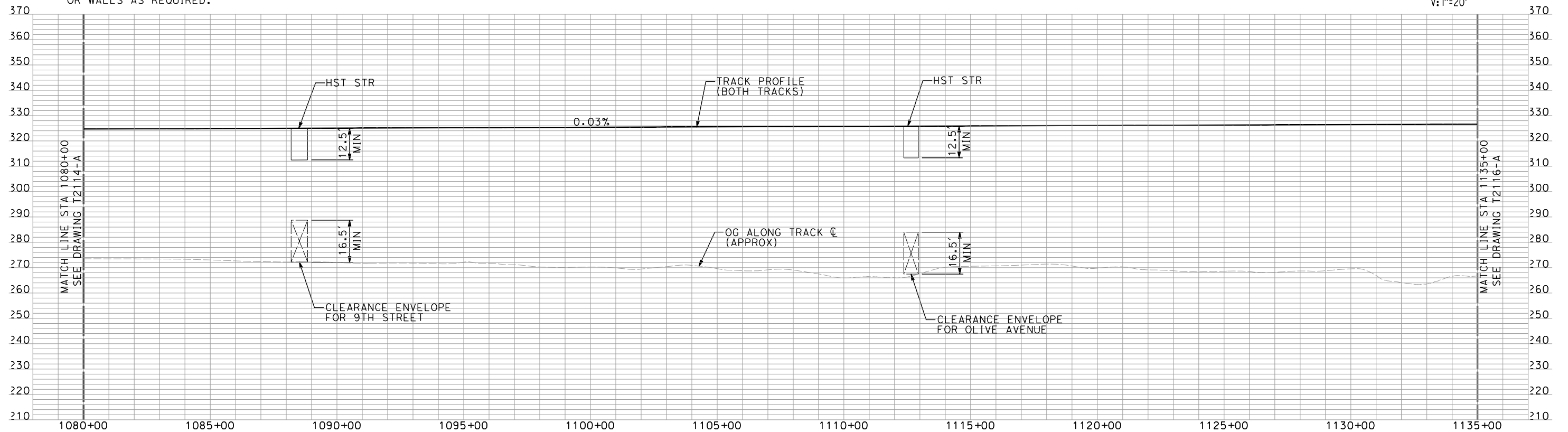
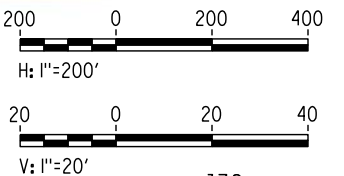
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shieldsa



NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/27/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

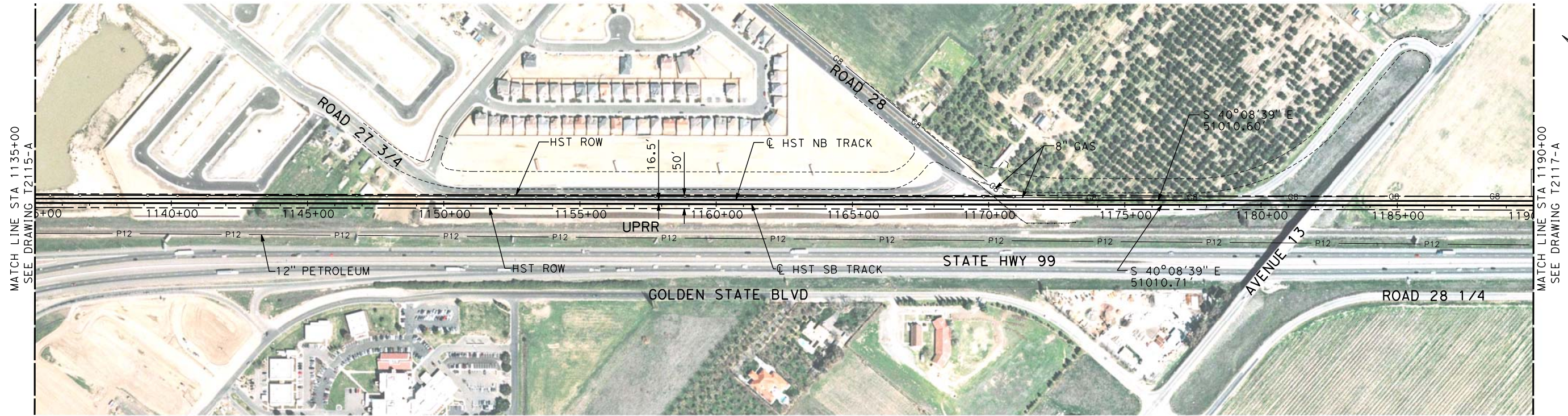


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1080+00 TO STA 1135+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2115-A
SCALE
AS SHOWN
SHEET NO.
OF

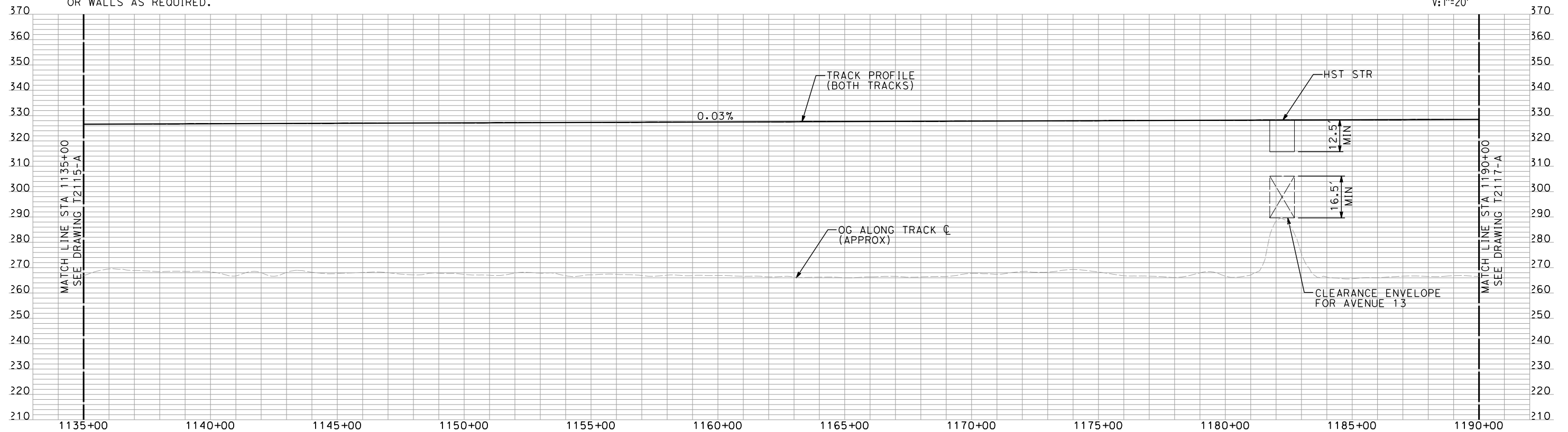
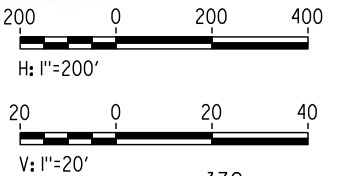
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shieldsa



NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1135+00 TO STA 1190+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2116-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

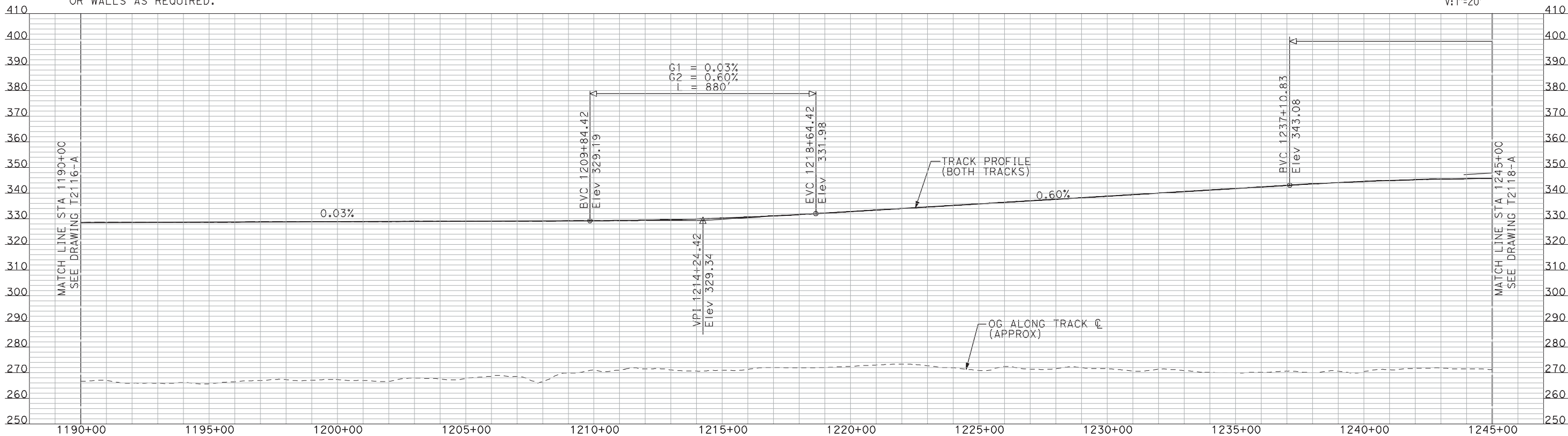
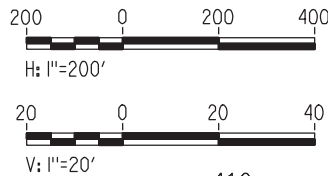
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



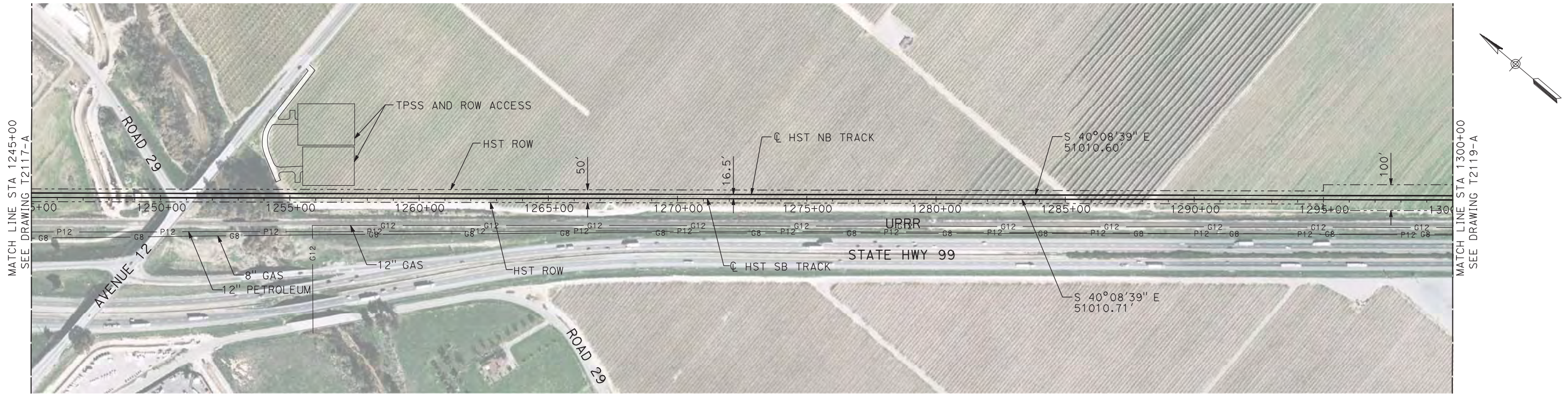
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1190+00 TO STA 1245+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2117-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

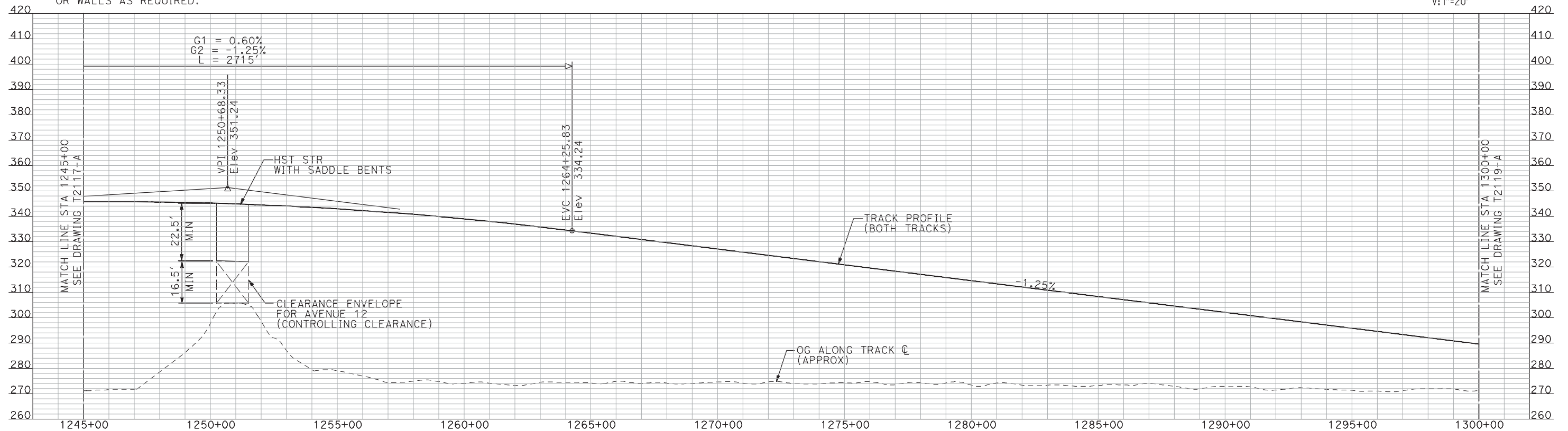
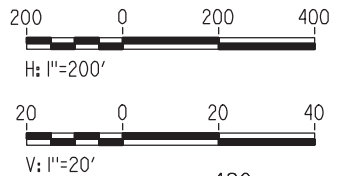
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL

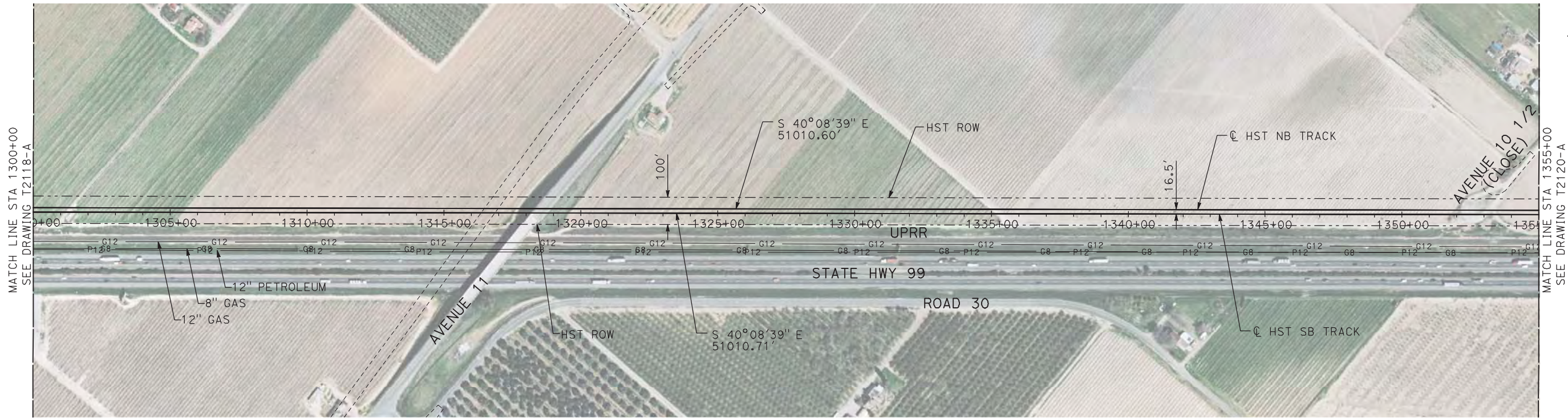


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1245+00 TO STA 1300+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2118-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

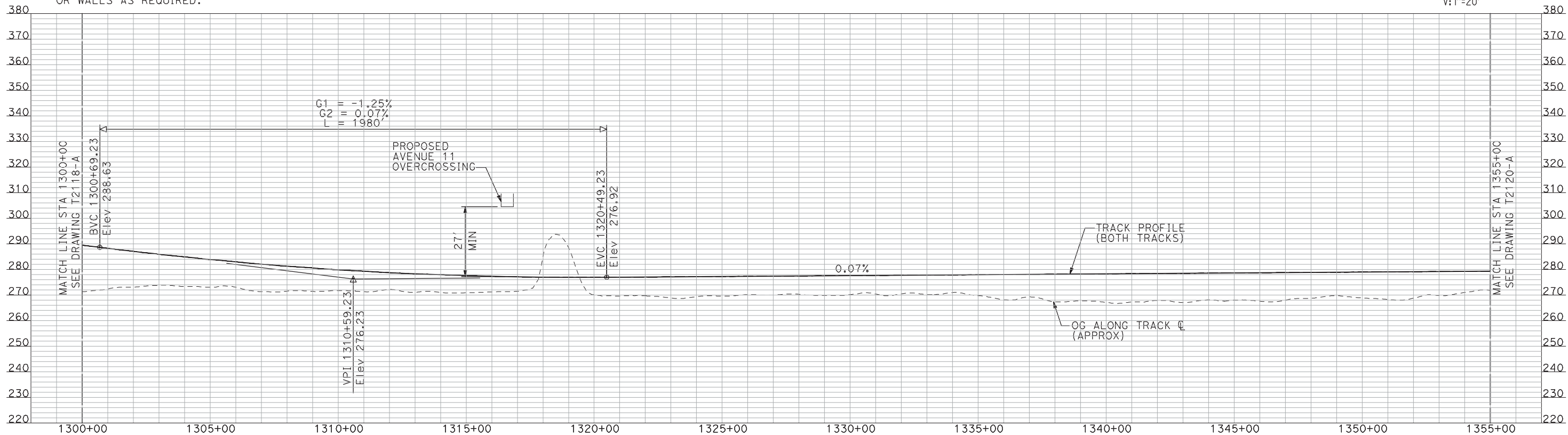
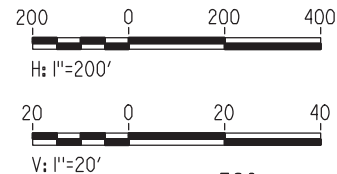
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



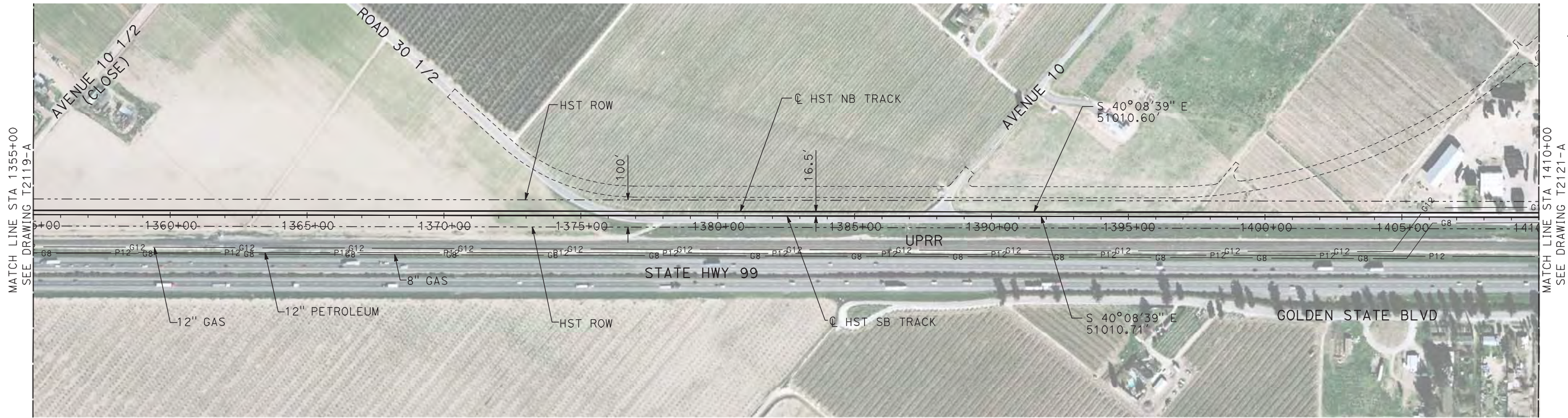
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1300+00 TO STA 1355+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2119-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

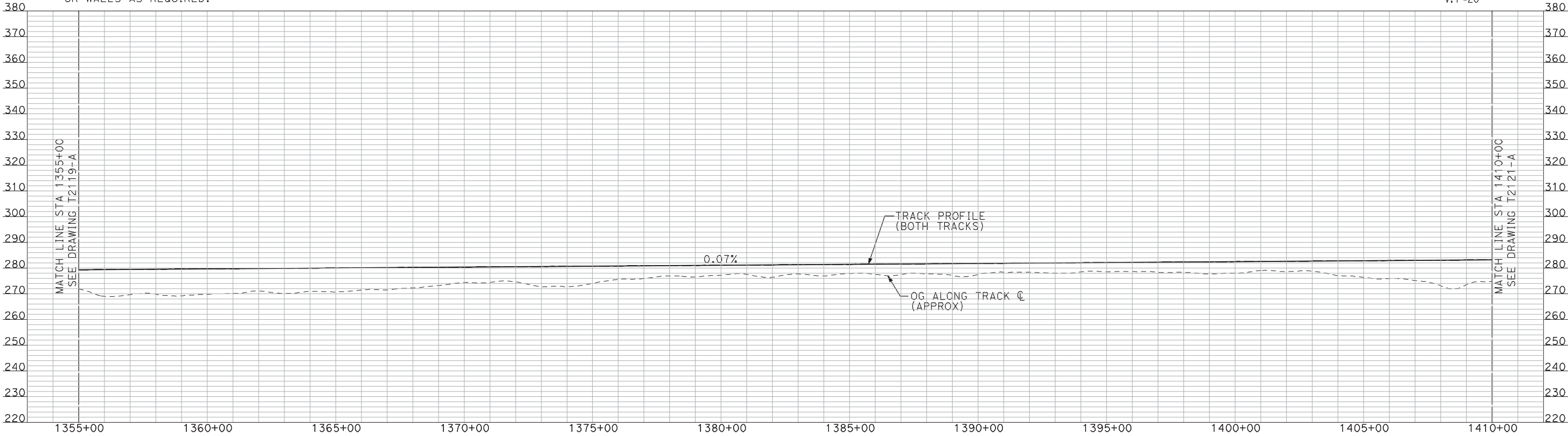
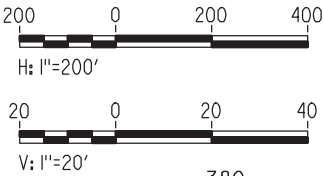
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

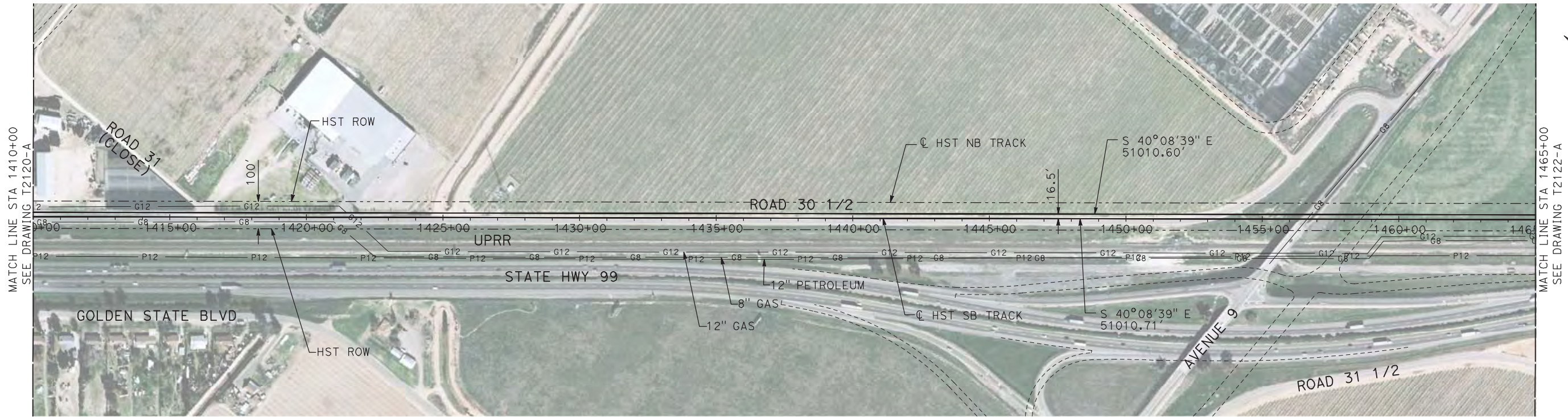


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1355+00 TO STA 1410+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2120-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

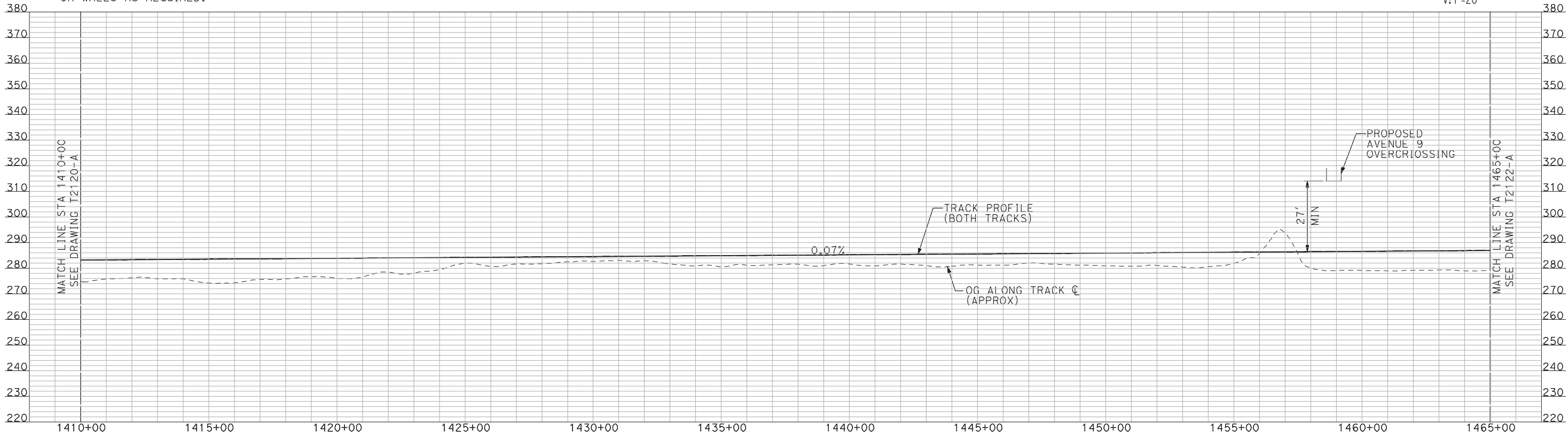
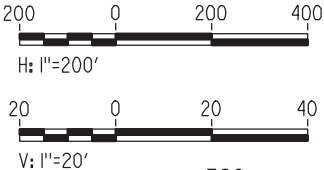
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



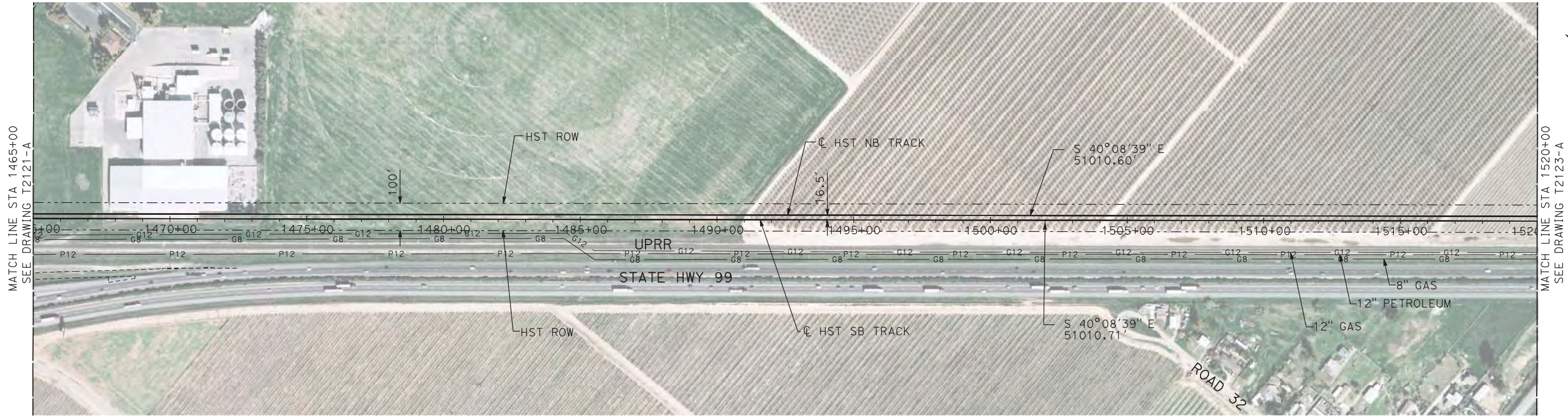
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1410+00 TO STA 1465+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2121-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

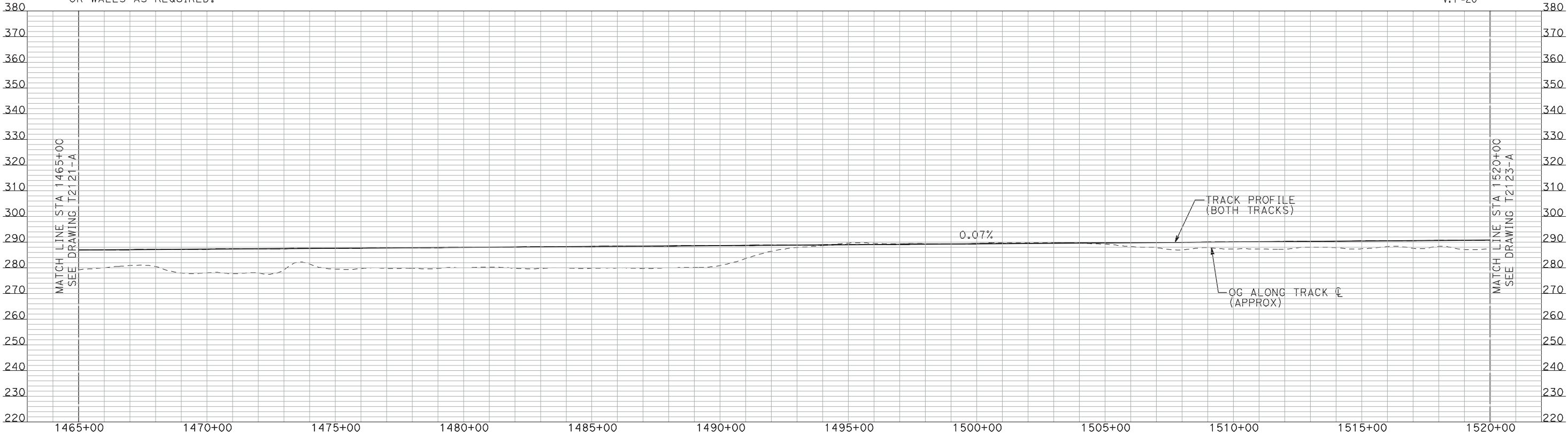
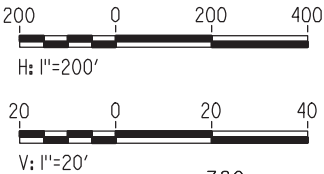
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
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RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION



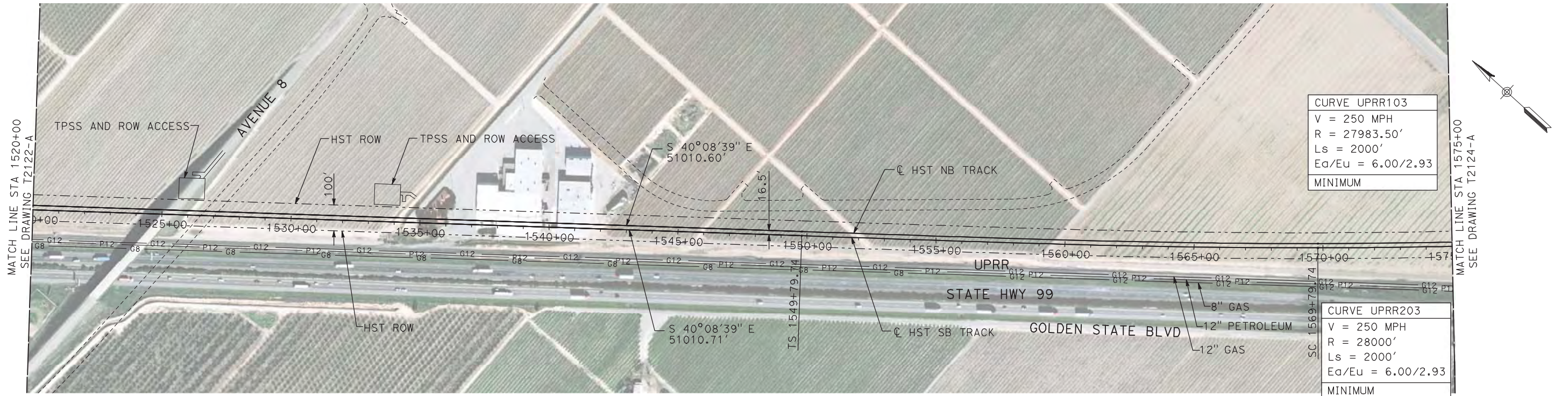
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1465+00 TO STA 1520+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2122-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

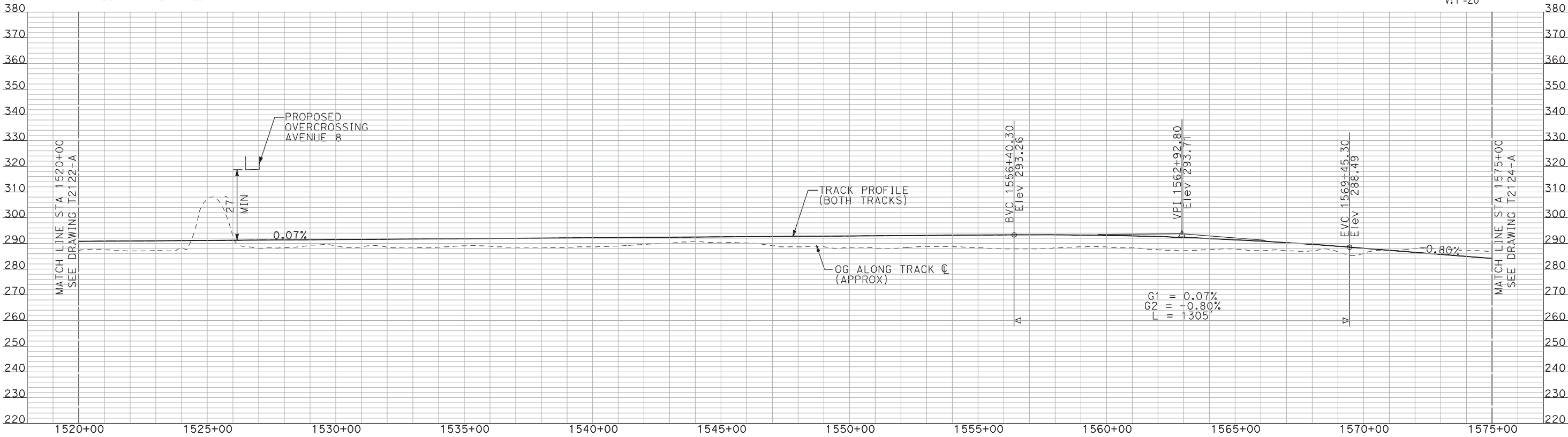
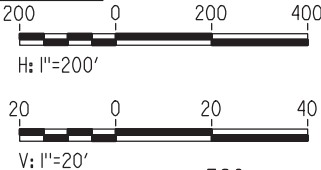
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

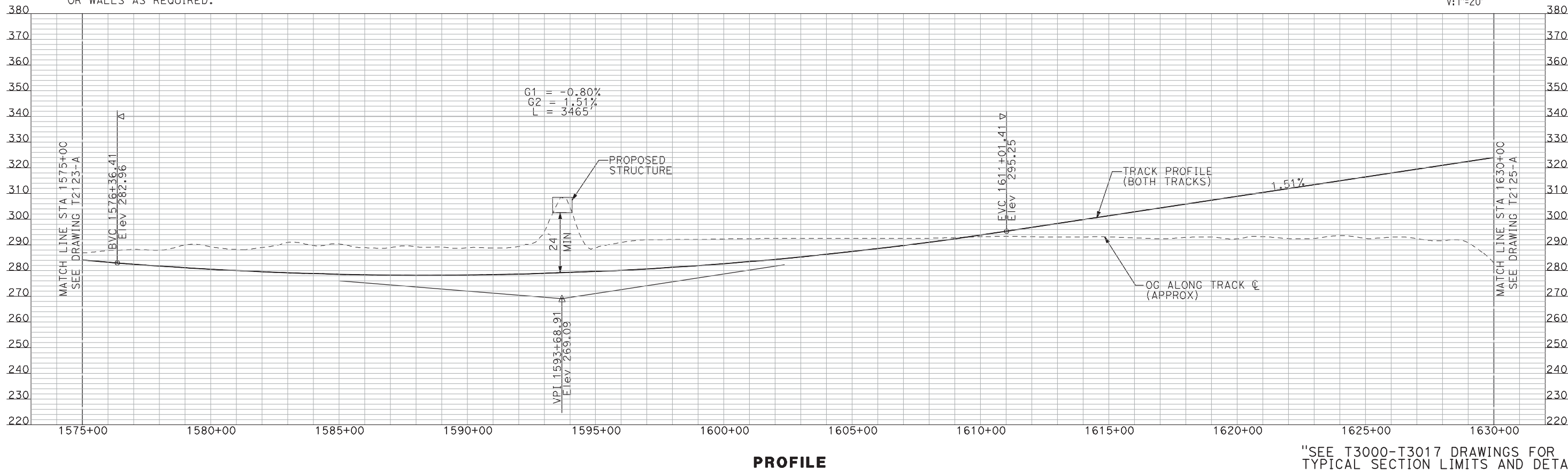
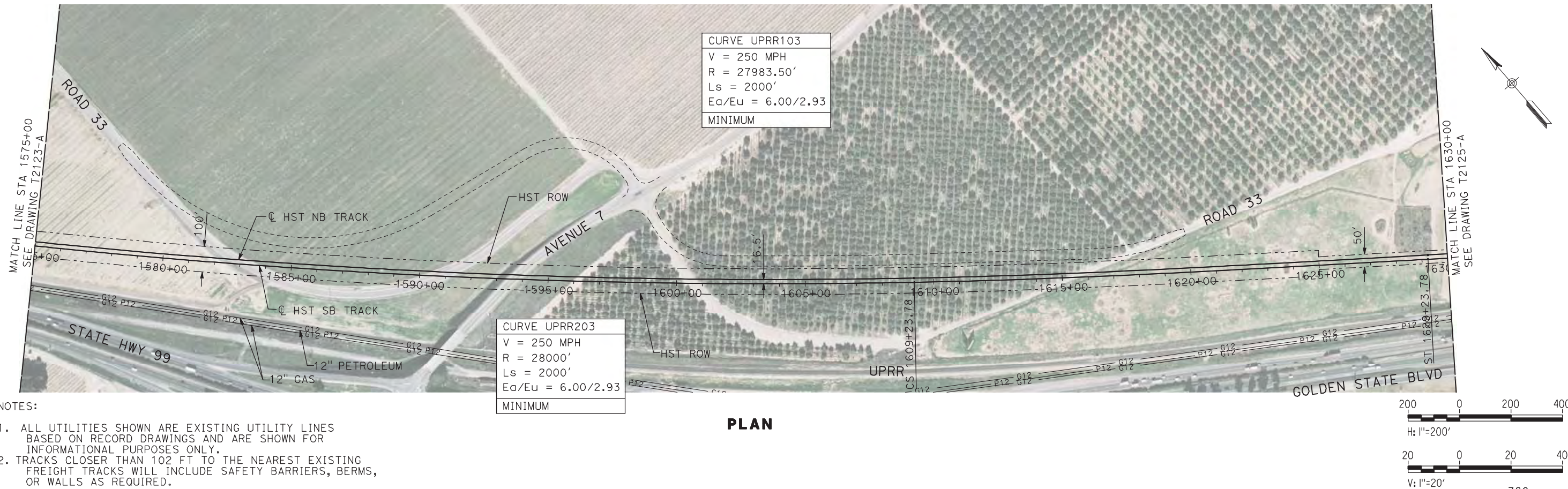


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1520+00 TO STA 1575+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2123-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

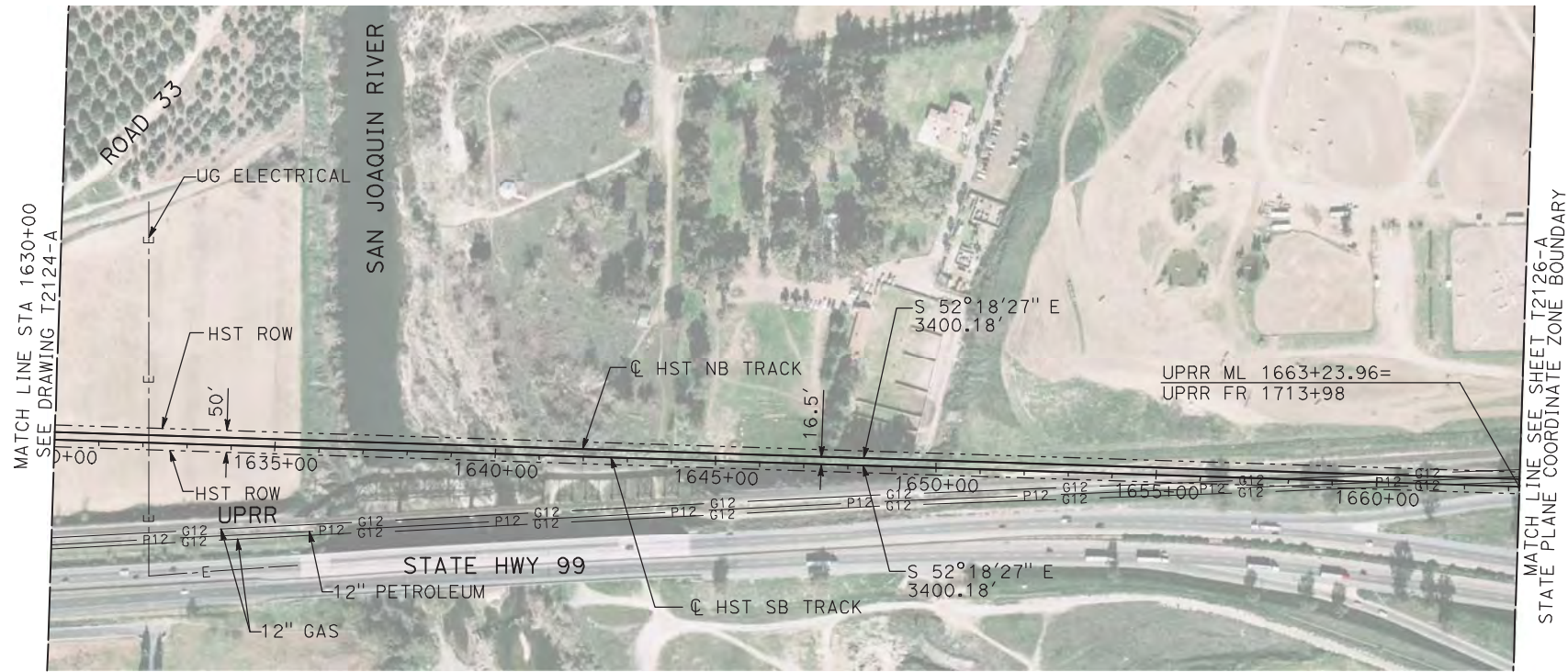
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1575+00 TO STA 1630+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2124-A |
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| SHEET NO. ### OF ### |

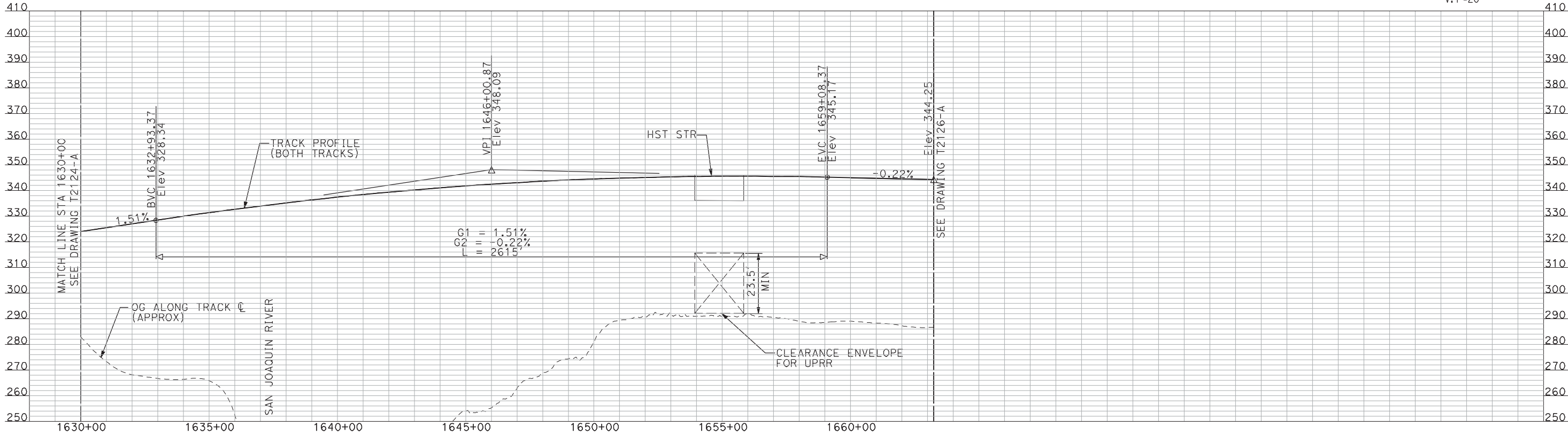
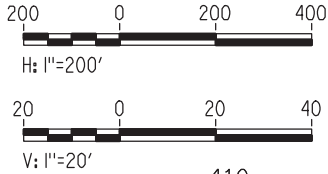
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

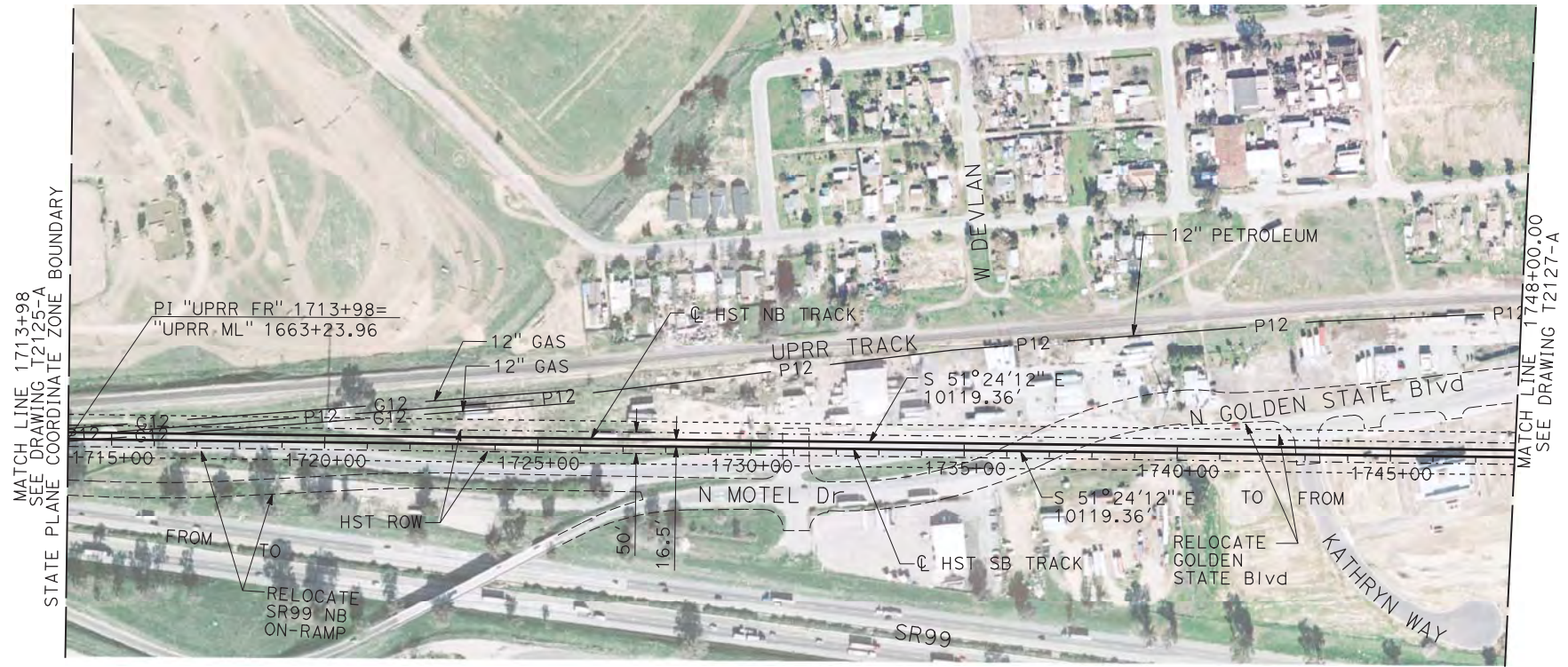


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

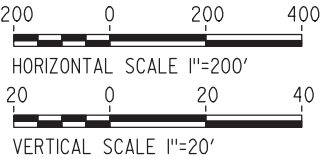
UPRR/SR 99 MAIN LINE

PLAN AND PROFILE
STA 1630+00 TO STA 1663+23.96

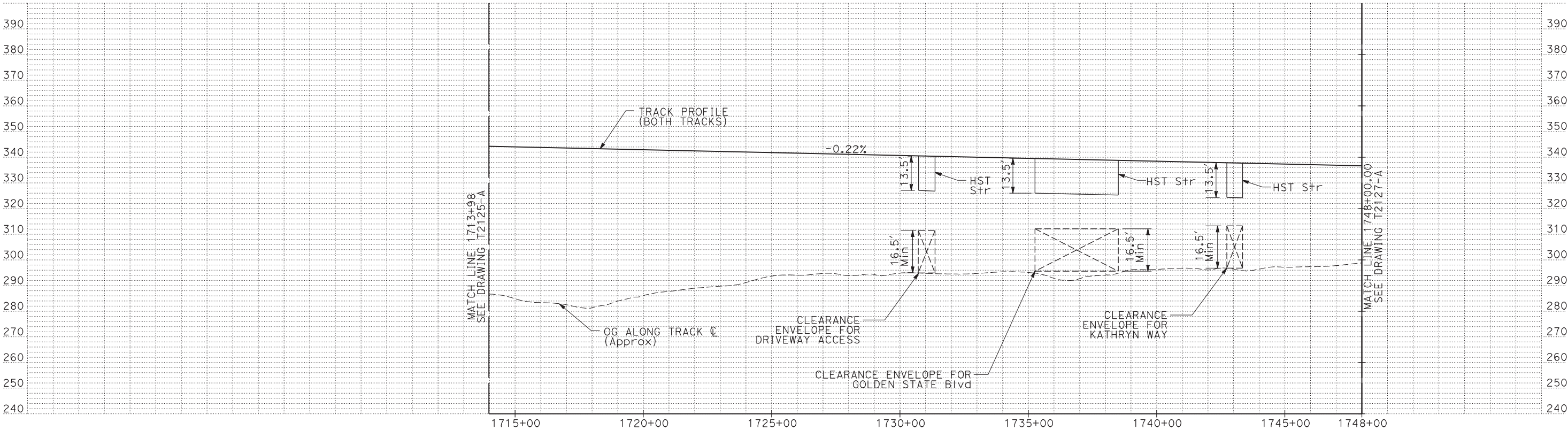
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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2125-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |



PLAN



- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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|---------------------------|
| DESIGNED BY C. CHIU |
| DRAWN BY M. MCKEON |
| CHECKED BY V. CHIO |
| IN CHARGE J. VALSECCHI |
| DATE JULY 2011 |

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|---------------------------------------|
| RECORD SET 15% DESIGN SUBMITTAL |
| NOT FOR CONSTRUCTION |

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

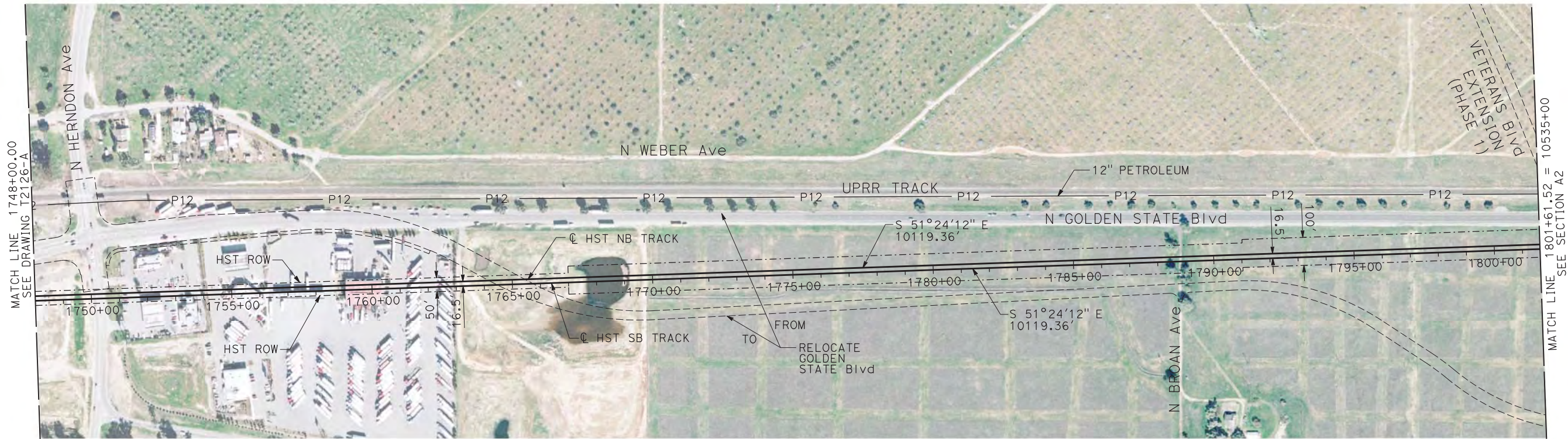
UPRR/SR99 MAIN LINE

PLAN AND PROFILE
STA 1713+98 TO STA 1748+00

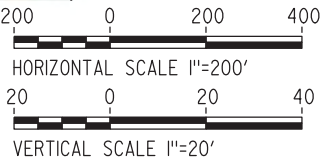
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| SCALE AS SHOWN |
| SHEET NO. |

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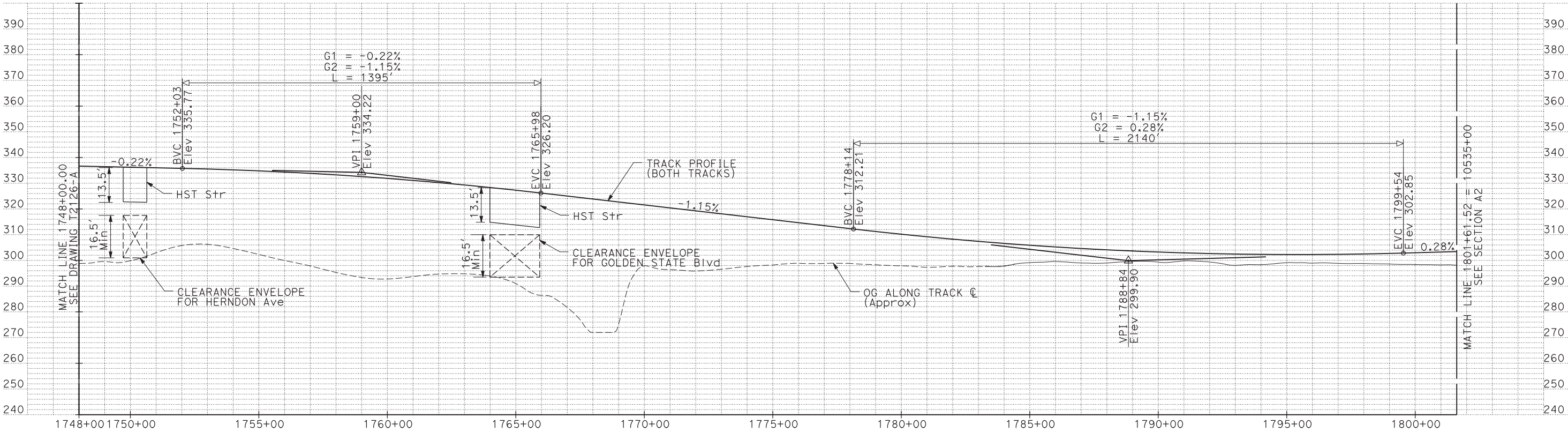
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TIME PLOTTED => 10:26



PLAN



- NOTE:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY C. CHIU |
| DRAWN BY M. MCKEON |
| CHECKED BY V. CHIO |
| IN CHARGE J. VALSECCHI |
| DATE JULY 2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

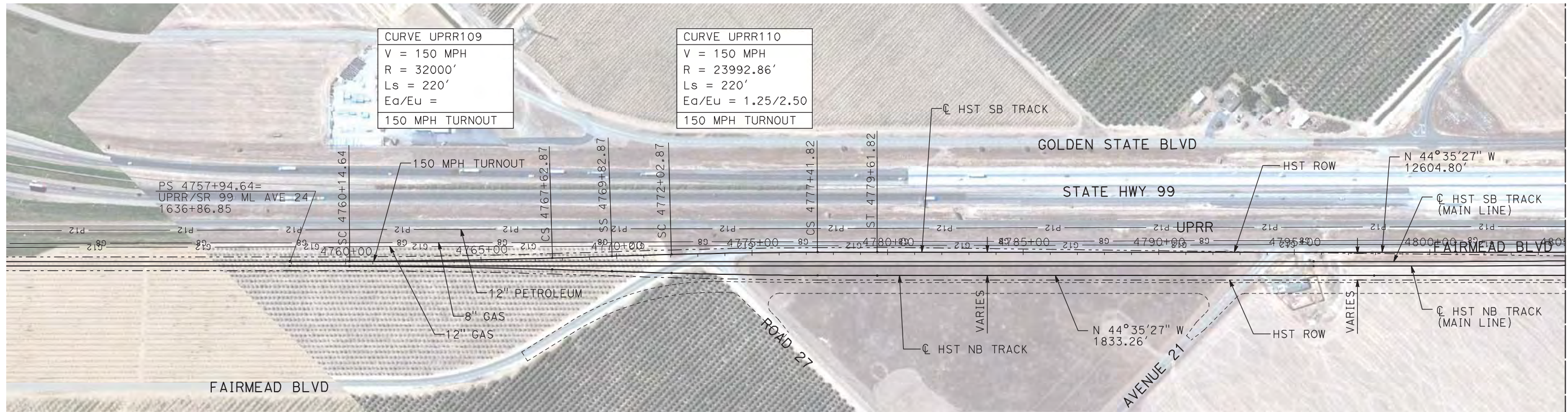
UPRR/SR99 MAIN LINE

PLAN AND PROFILE
STA 1748+00 TO STA 1801+61.52

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2127-A |
| SCALE AS SHOWN |
| SHEET NO. |

USERNAME => s1eona

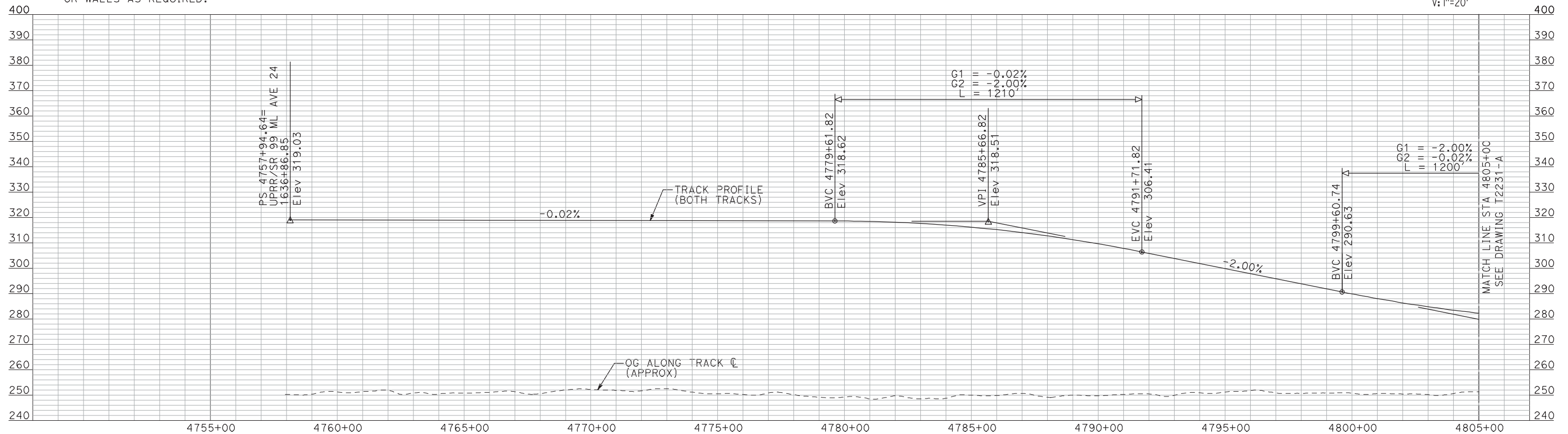
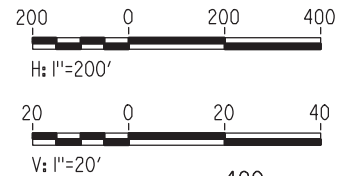
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

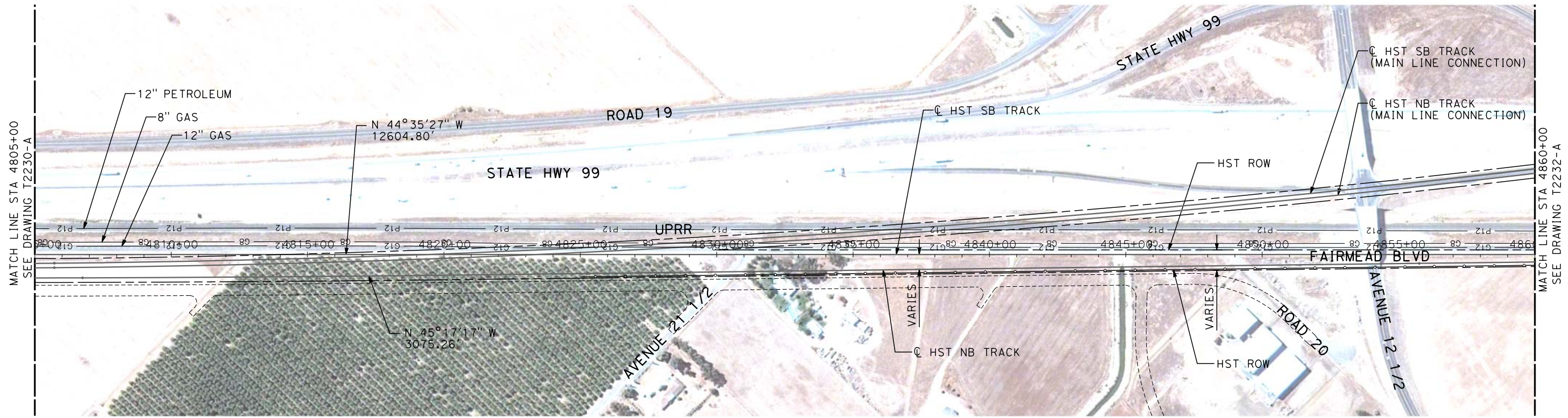


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 4757+94.64 TO STA 4805+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2230-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

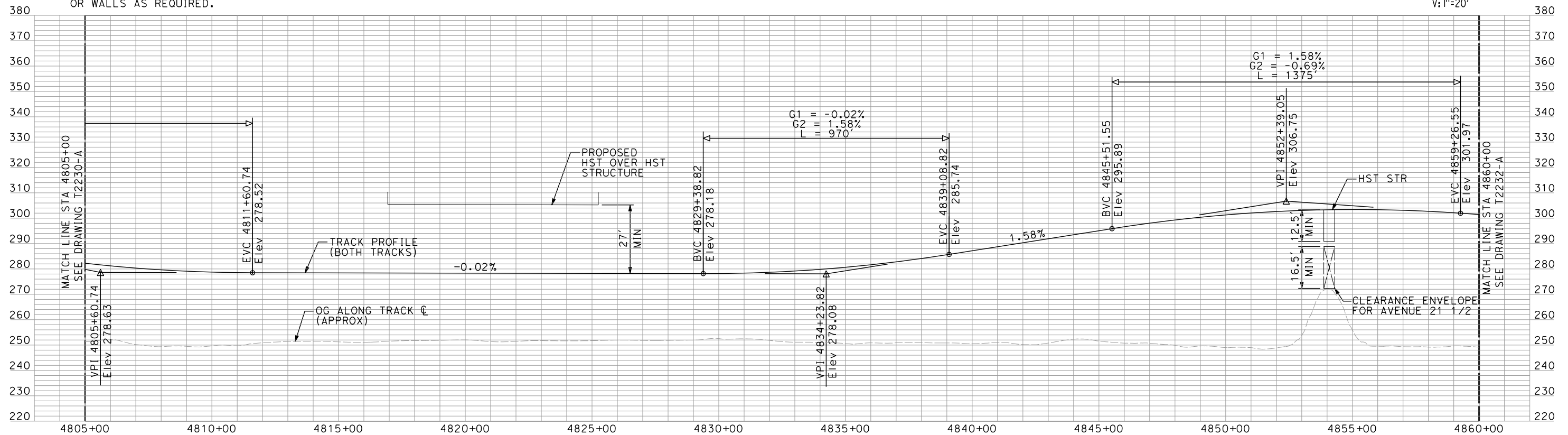
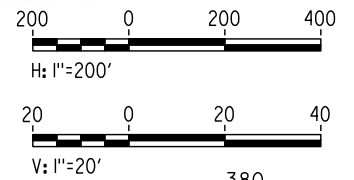
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
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2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

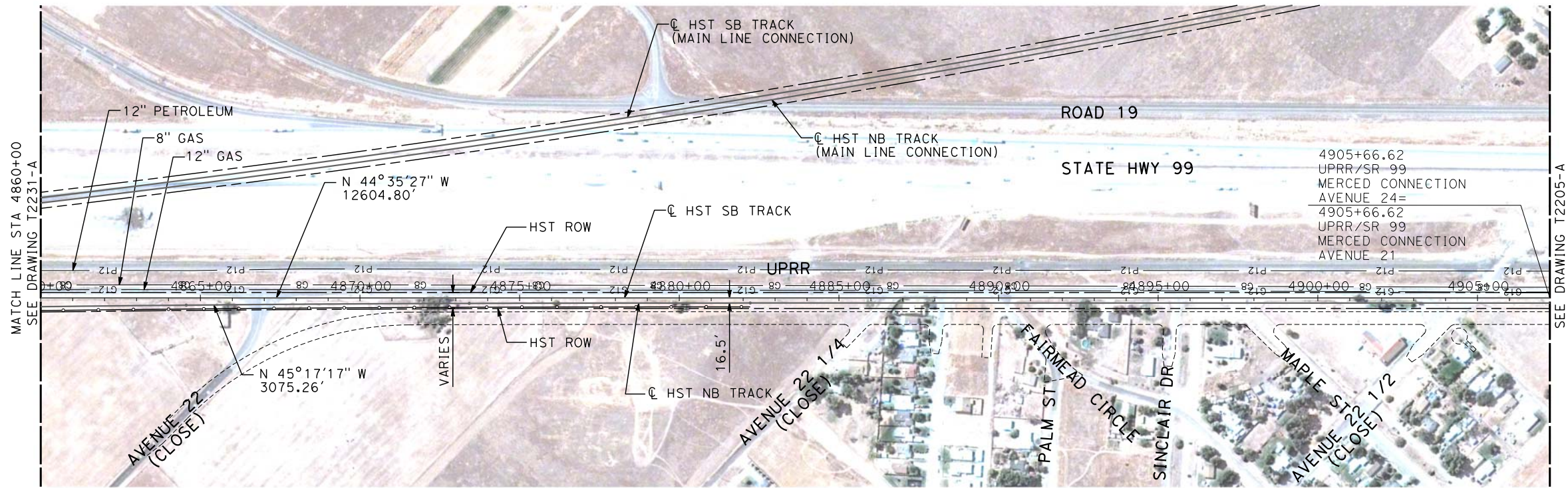


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 4805+00 TO STA 4860+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2231-A |
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| SHEET NO. ### OF ### |

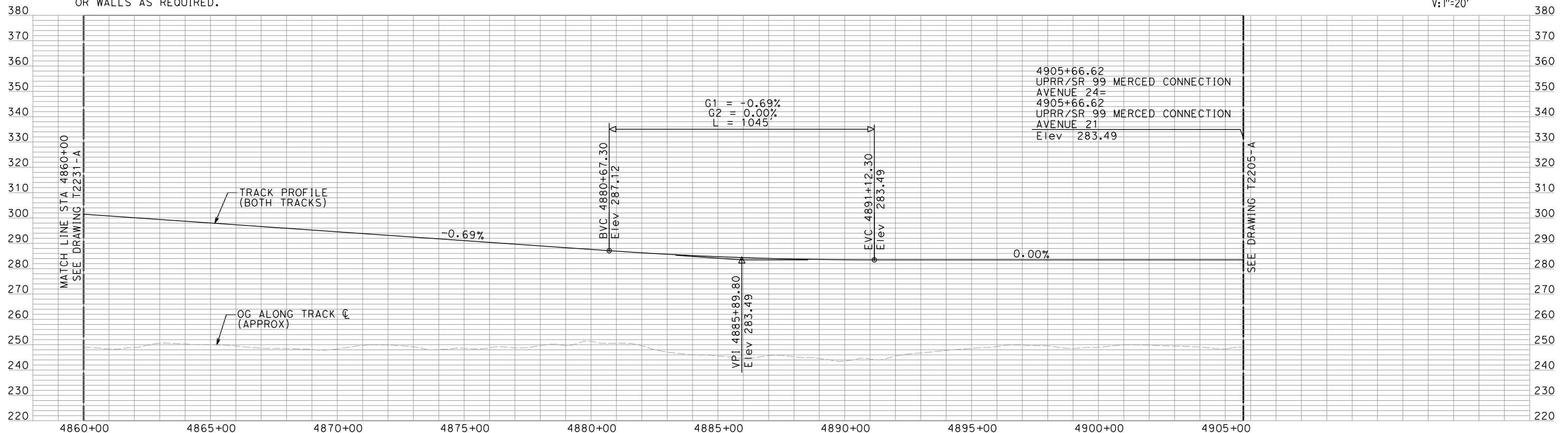
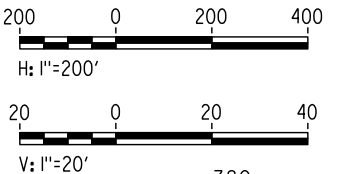
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

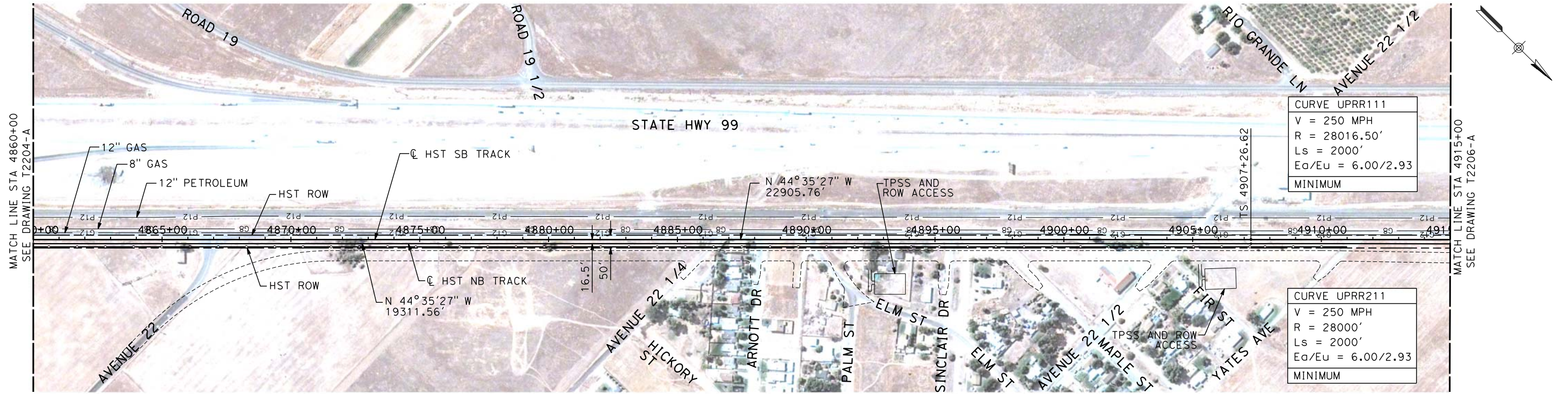


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 4860+00 TO STA 4905+66.62

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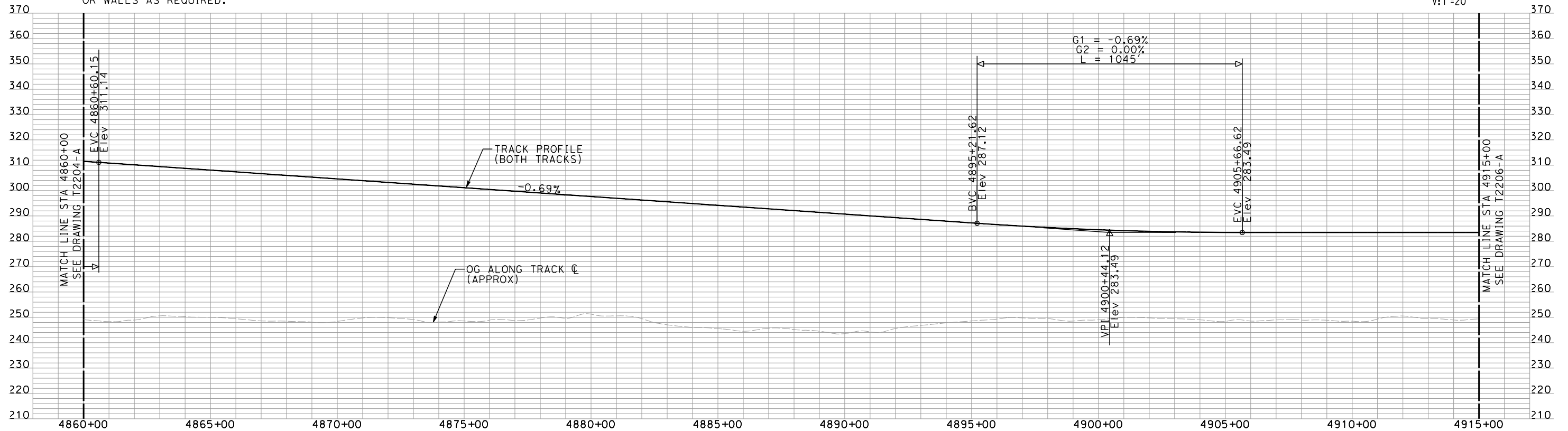
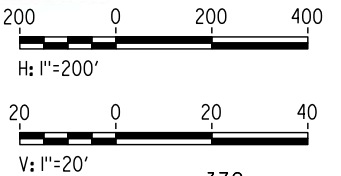
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



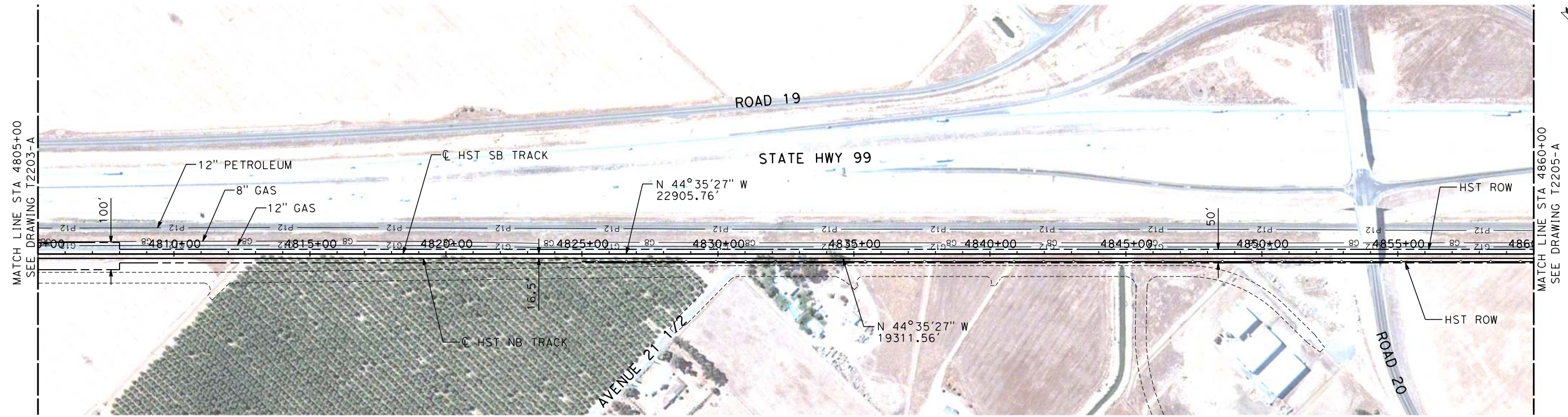
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 4860+00 TO STA 4915+00

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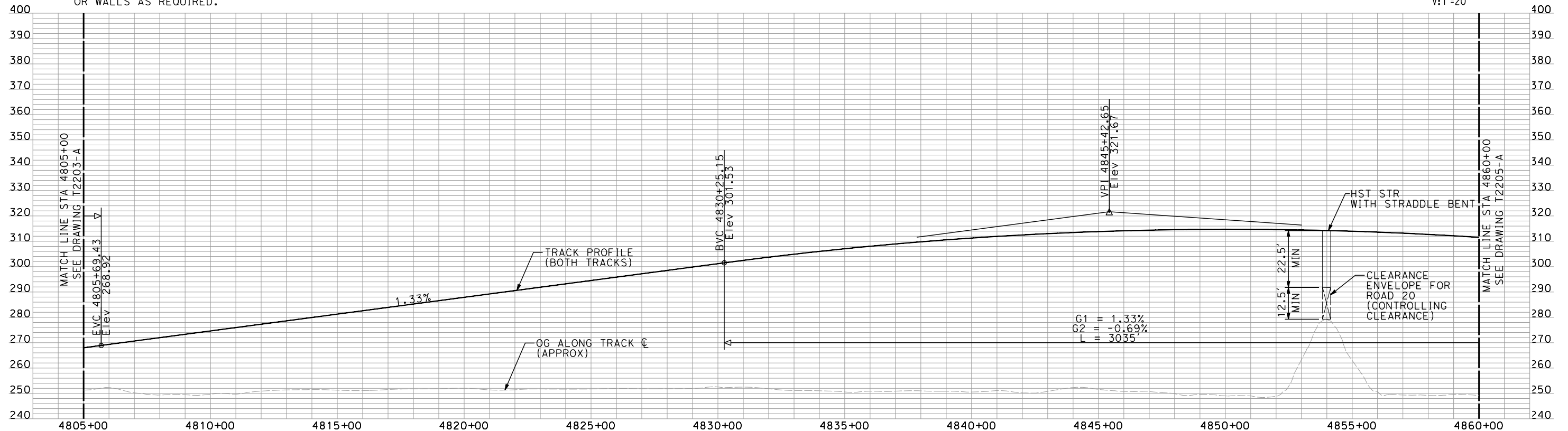
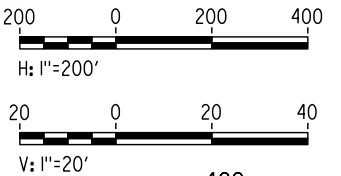
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL

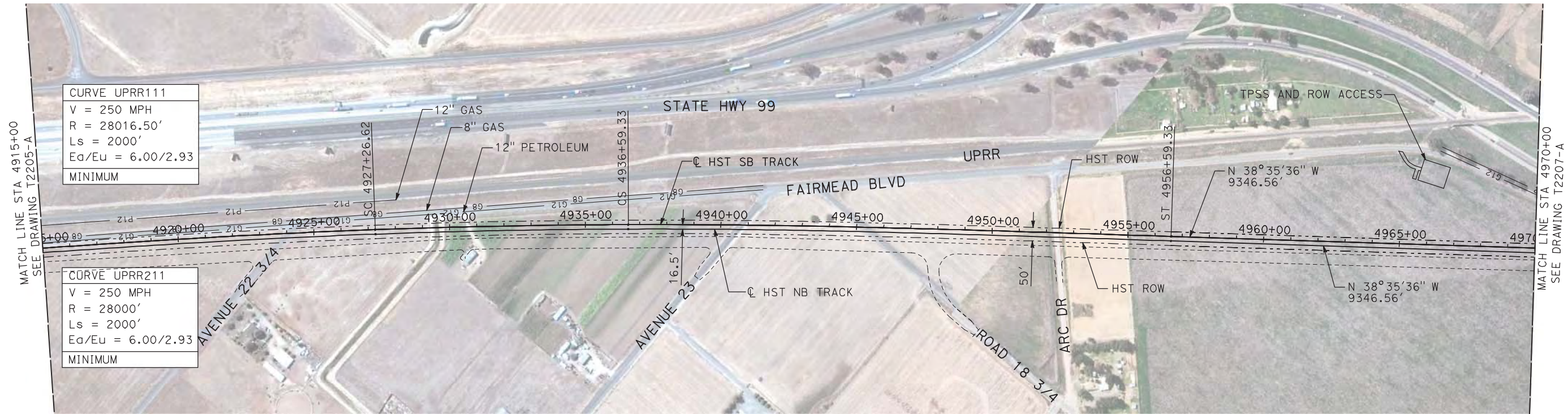


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 4805+00 TO STA 4860+00

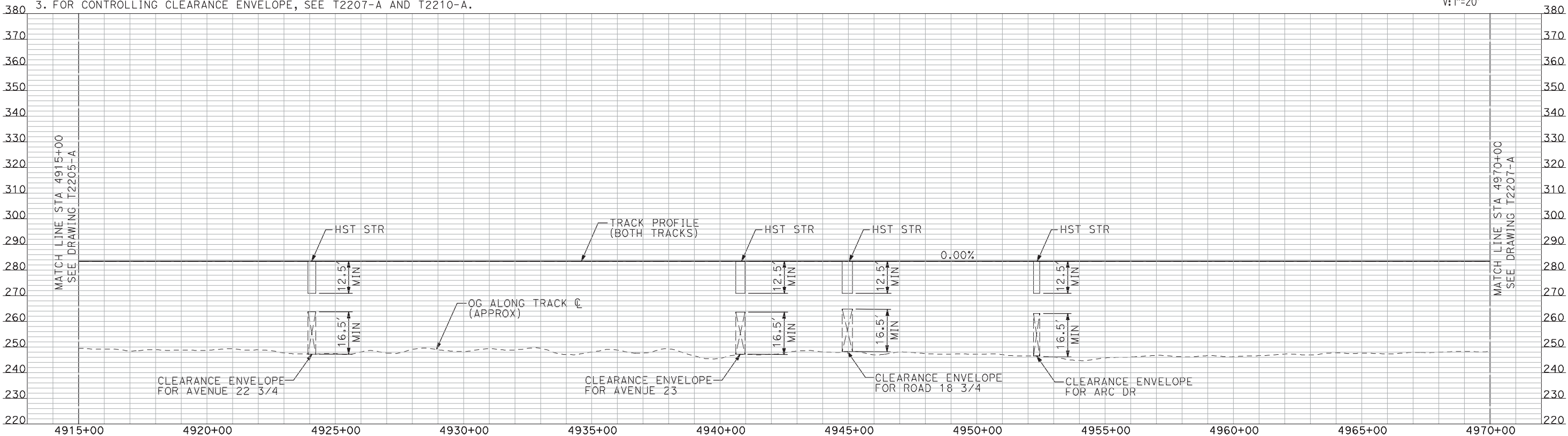
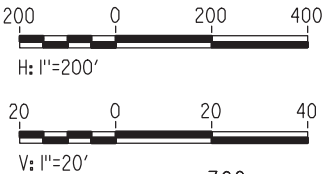
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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.
 - FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-A AND T2210-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
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NOT FOR
CONSTRUCTION

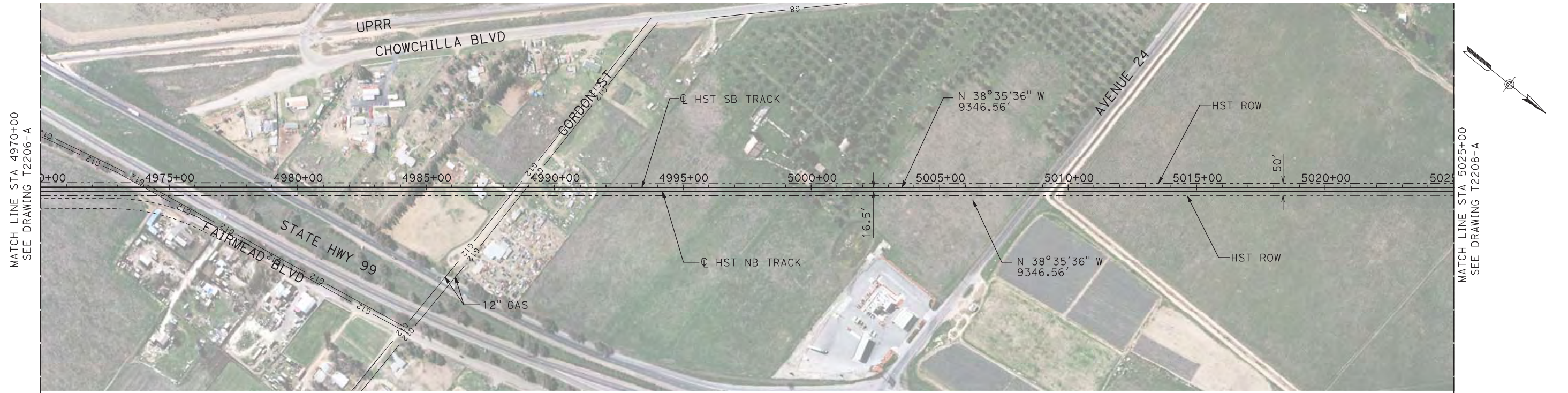
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 MERCED CONNECTION
AVENUE 21
PLAN AND PROFILE
STA 4915+00 TO STA 4970+00

CONTRACT NO.
HSR06-007
DRAWING NO.
T2206-A
SCALE
AS SHOWN
SHEET NO.
OF

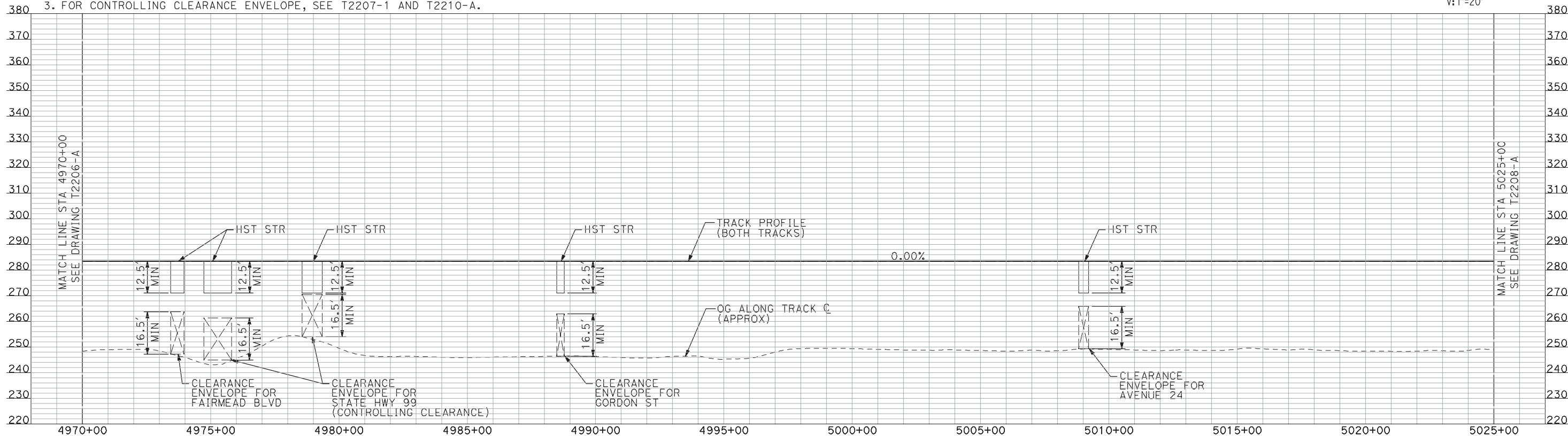
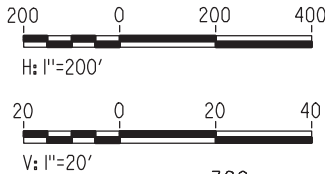
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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3. FOR CONTROLLING CLEARANCE ENVELOPE, SEE T2207-1 AND T2210-A.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



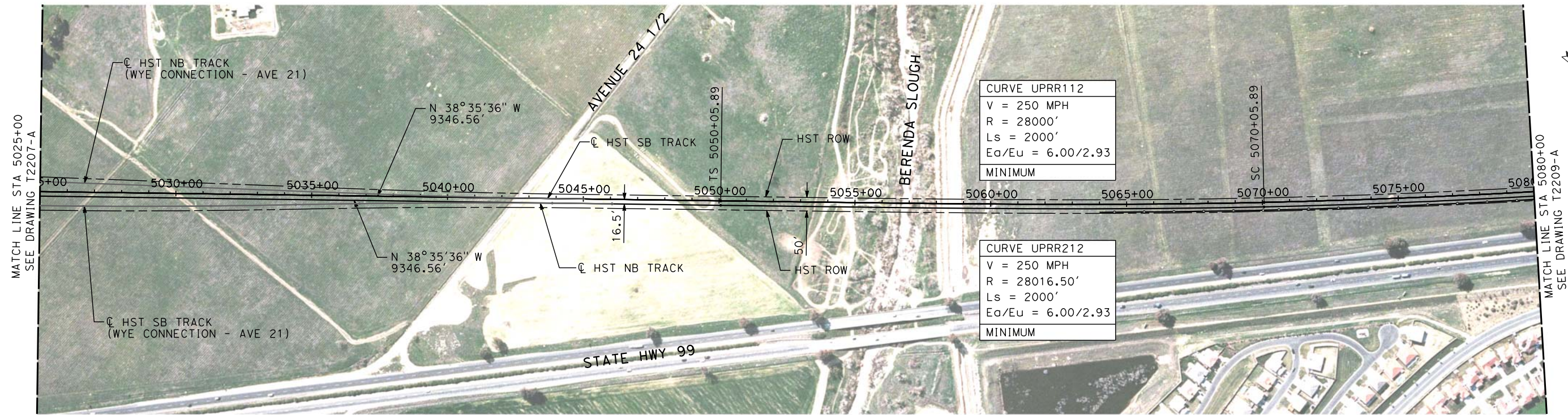
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 4970+00 TO STA 5025+00

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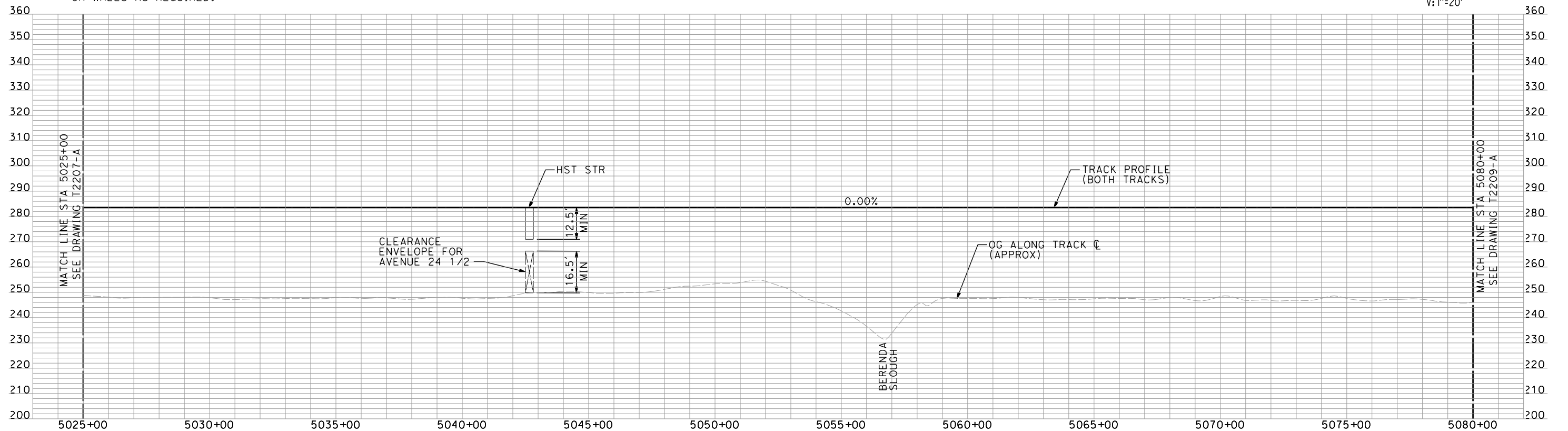
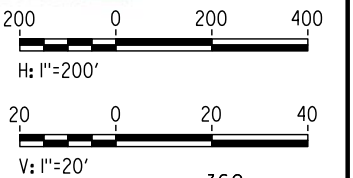
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shieldsa



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | AS | | | NOISE BARRIER LIMITS |

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



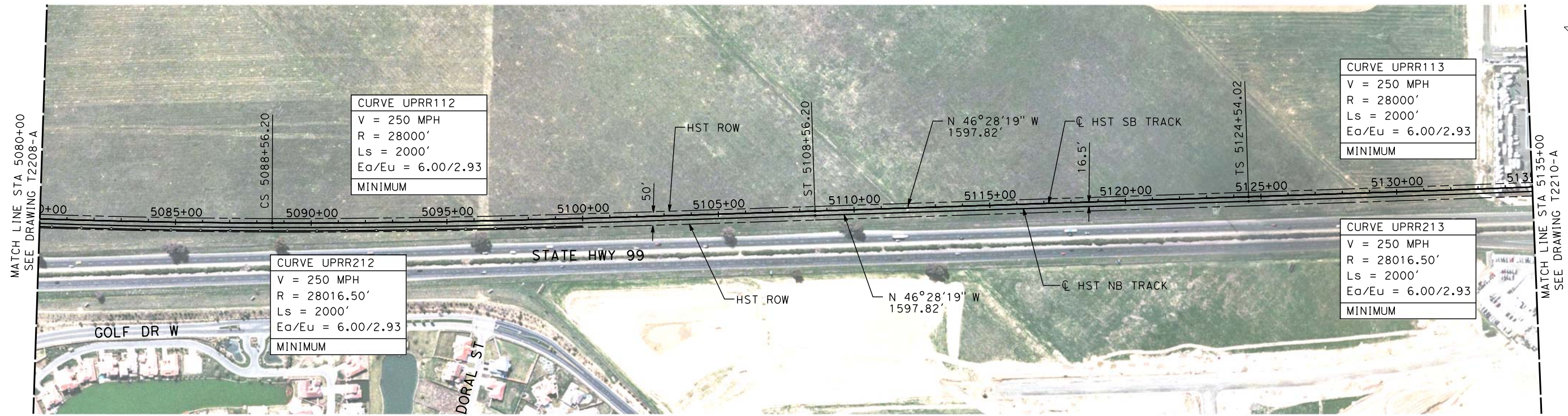
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5025+00 TO STA 5080+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2208-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

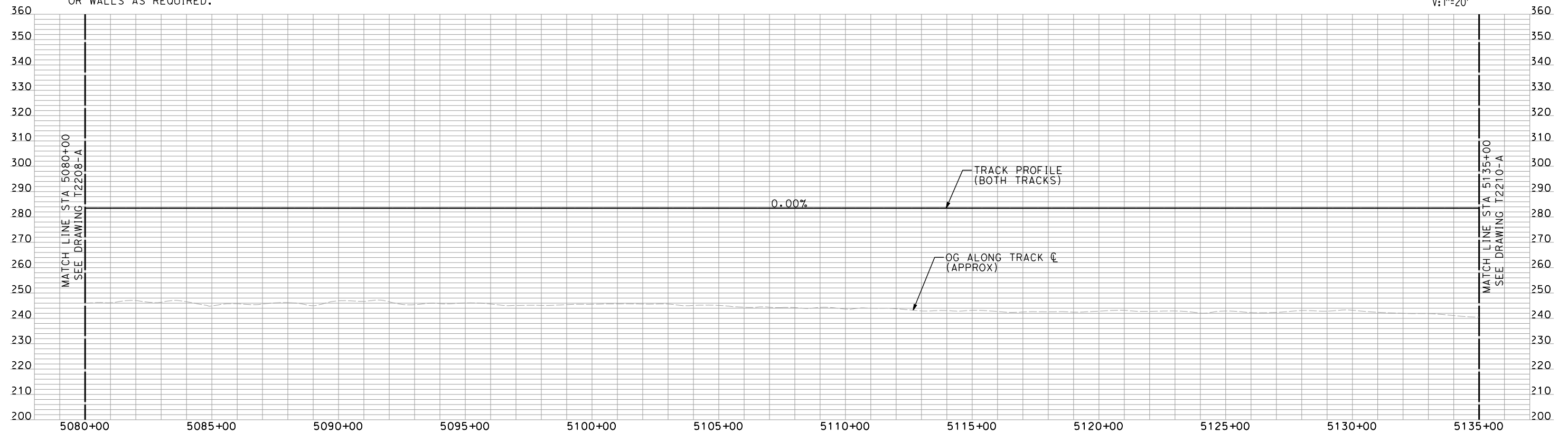
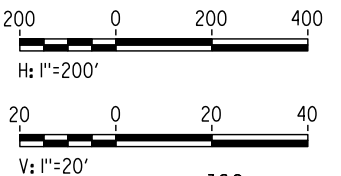
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shieldsa



NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
|-----|----------|----|-----|-----|----------------------|
| 1 | 02/17/12 | AS | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
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SUBMITTAL

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CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



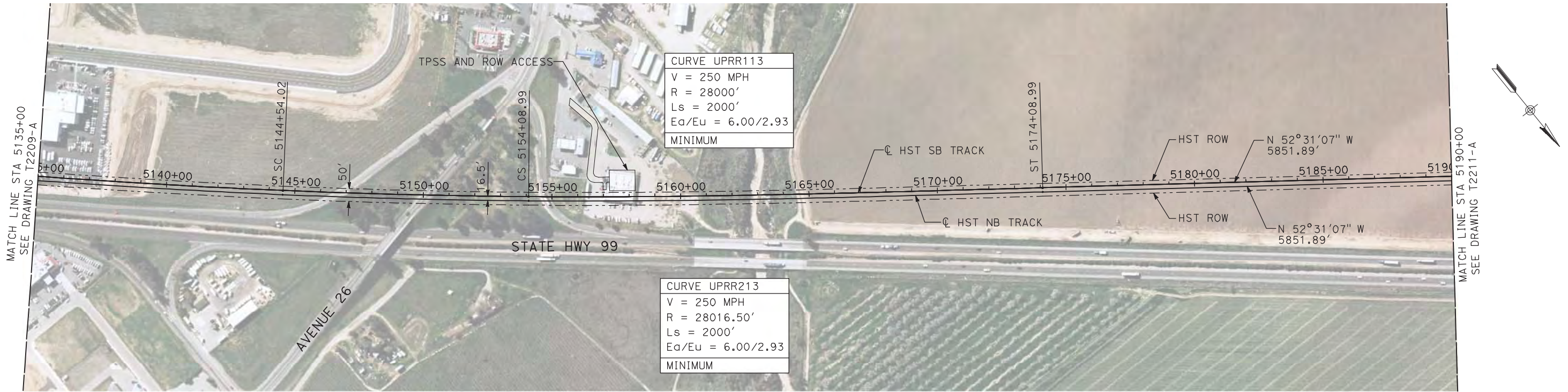
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2209-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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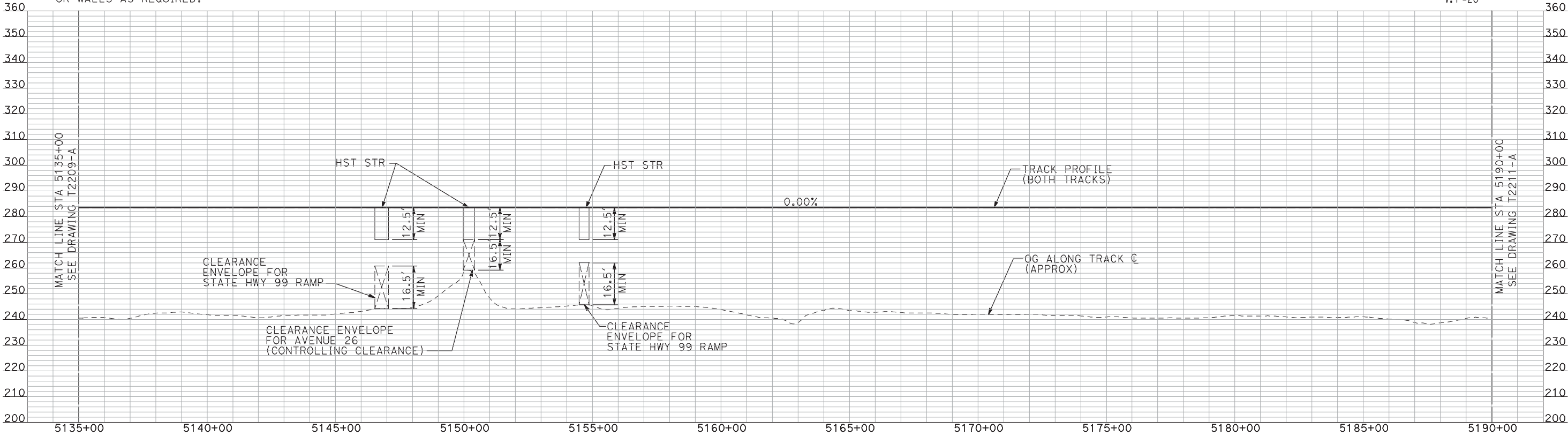


NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING
FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS,
OR WALLS AS REQUIRED.

PLAN

200 0 200 400
H: 1"=200'

20 0 20 40
V: 1"=20'



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



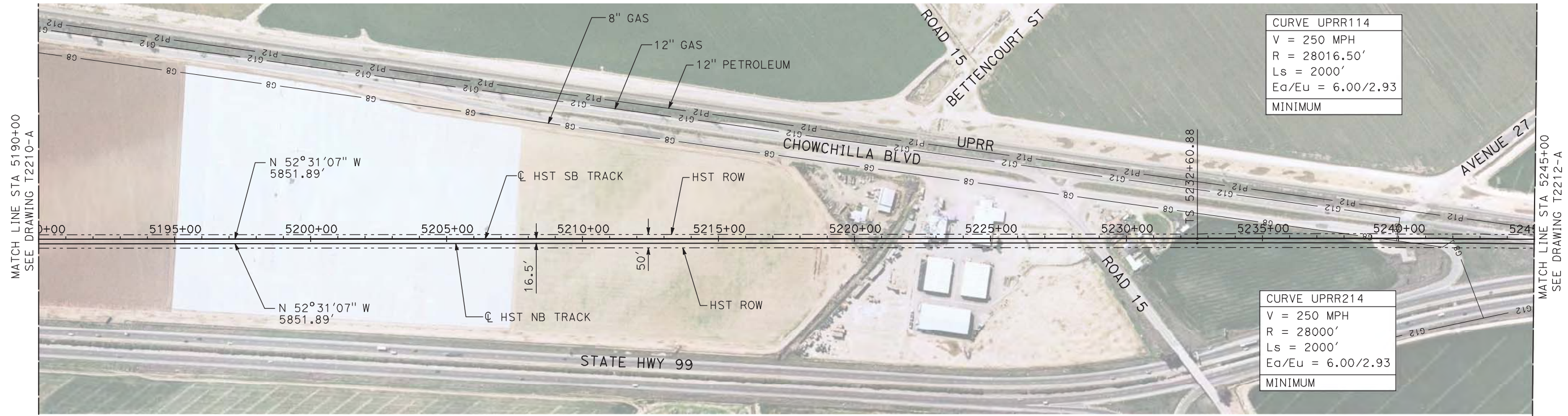
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2210-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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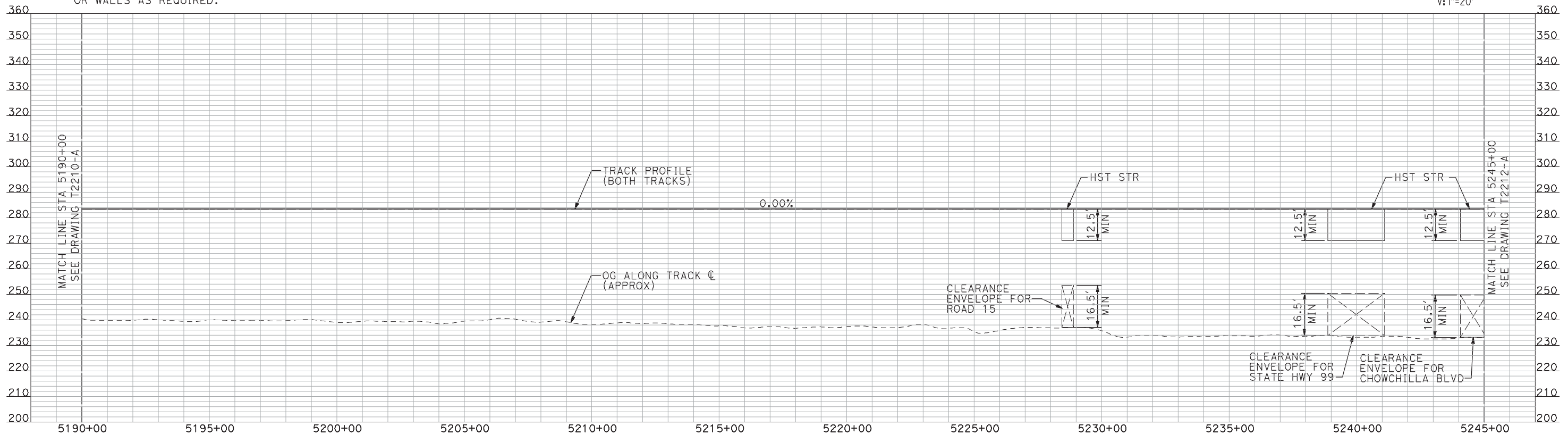
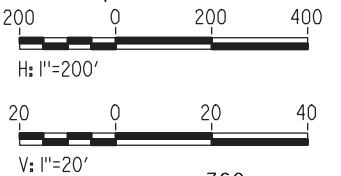
CURVE UPRR114
V = 250 MPH
R = 28016.50'
Ls = 2000'
Ea/Eu = 6.00/2.93
MINIMUM

CURVE UPRR214
V = 250 MPH
R = 28000'
Ls = 2000'
Ea/Eu = 6.00/2.93
MINIMUM

NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
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RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



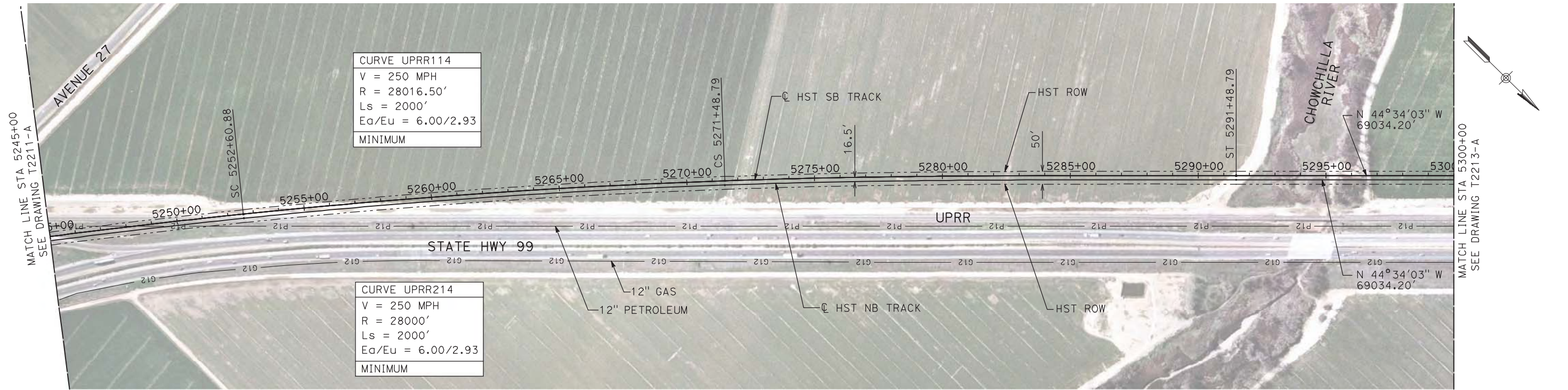
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

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| DRAWING NO. T2211-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

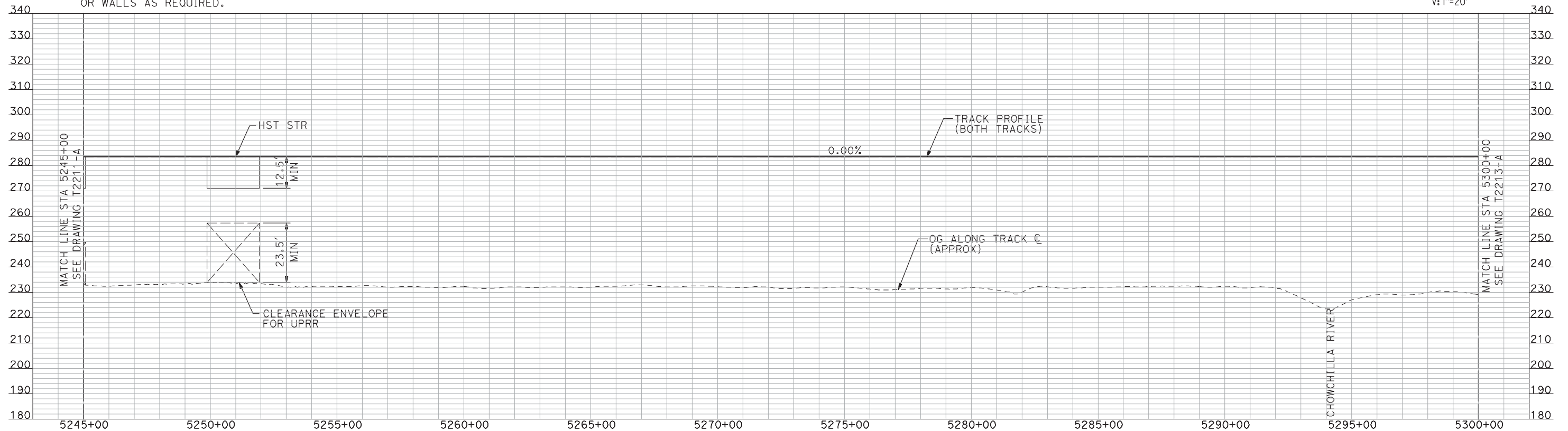
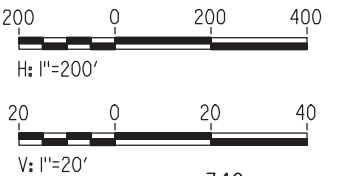
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NOTES:

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PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

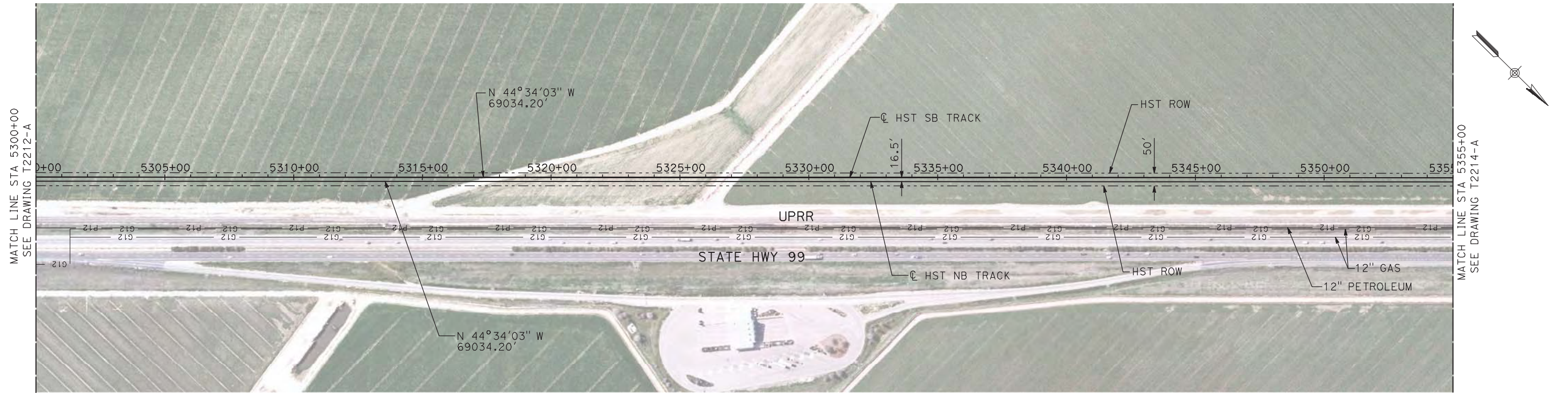
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2212-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

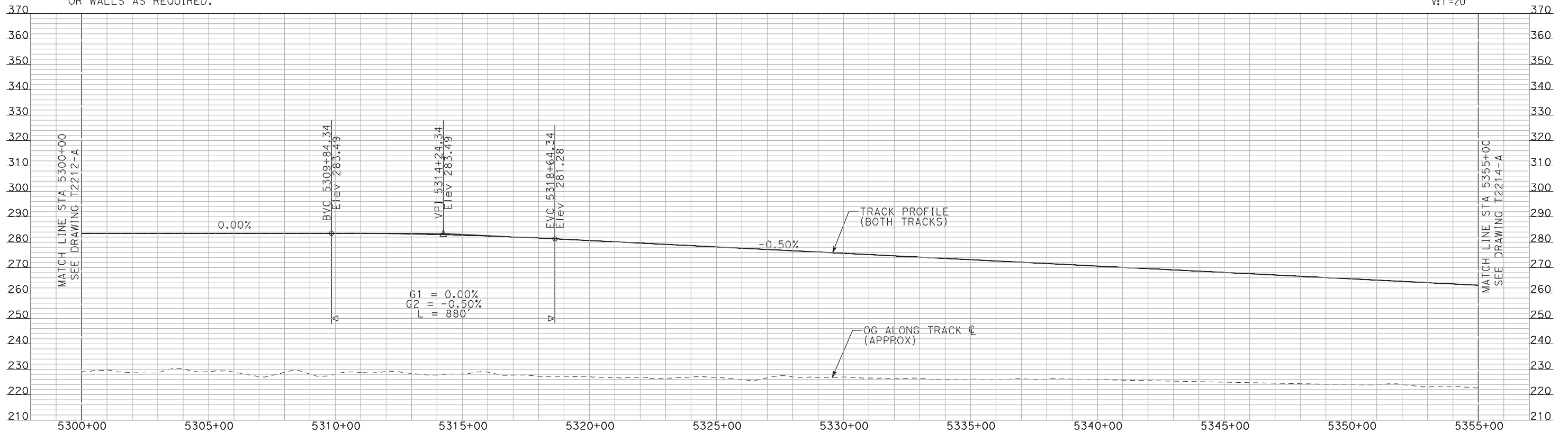
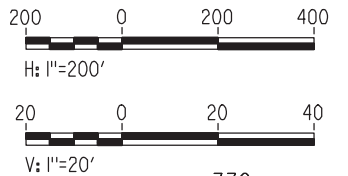
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

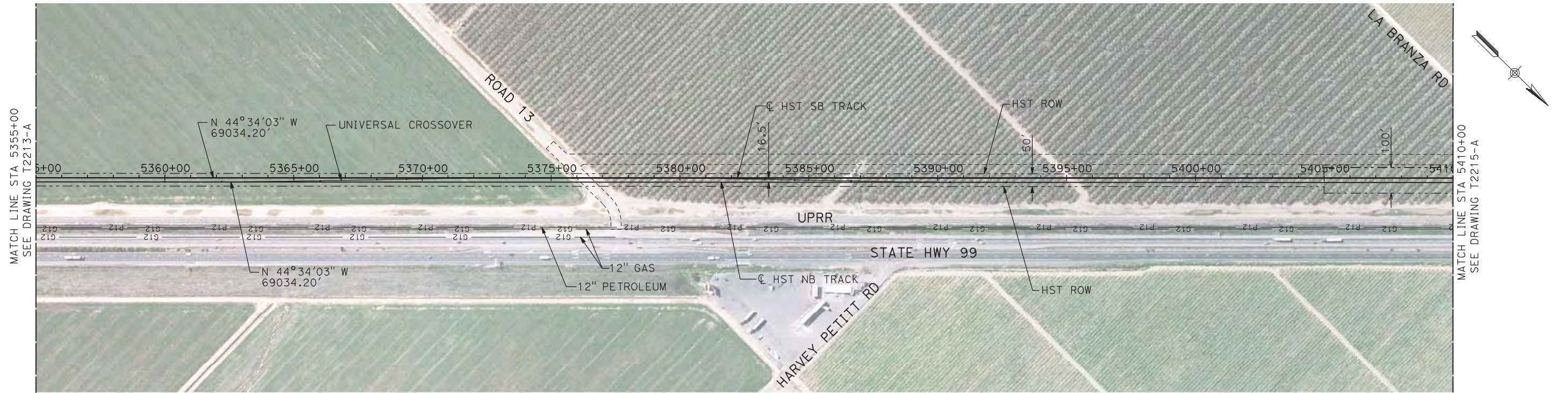
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

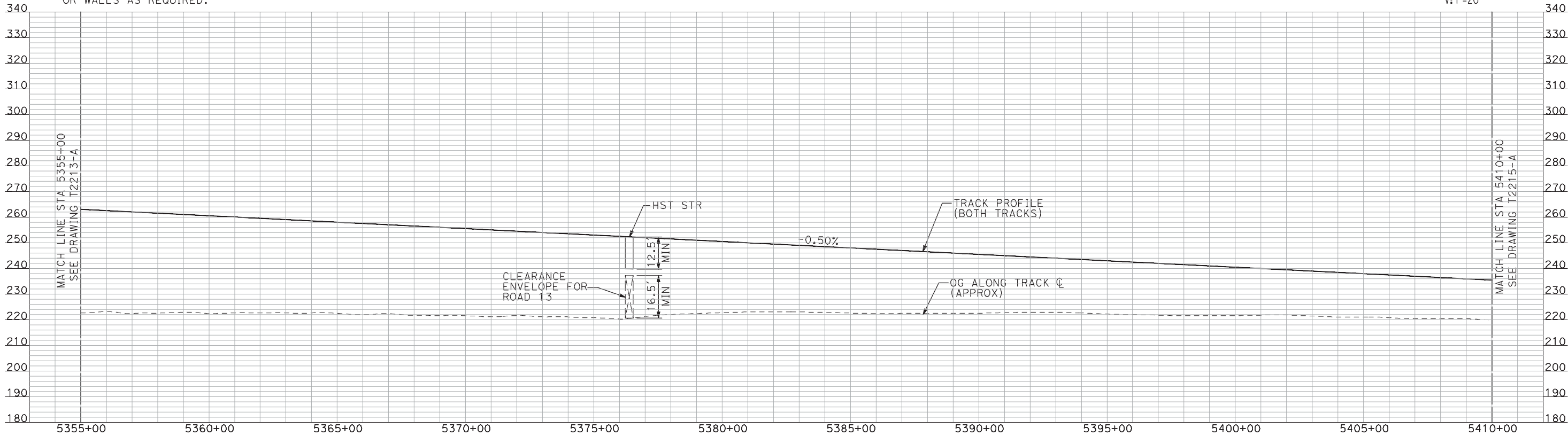
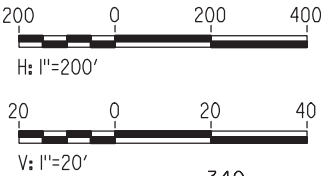
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- NOTES:
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

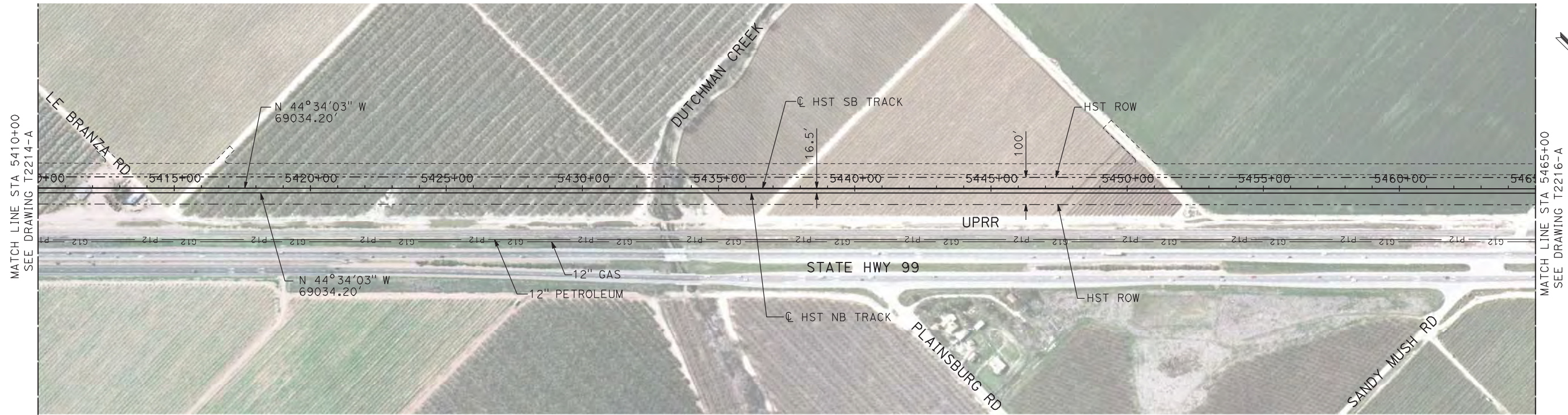
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

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| DRAWING NO. T2214-A |
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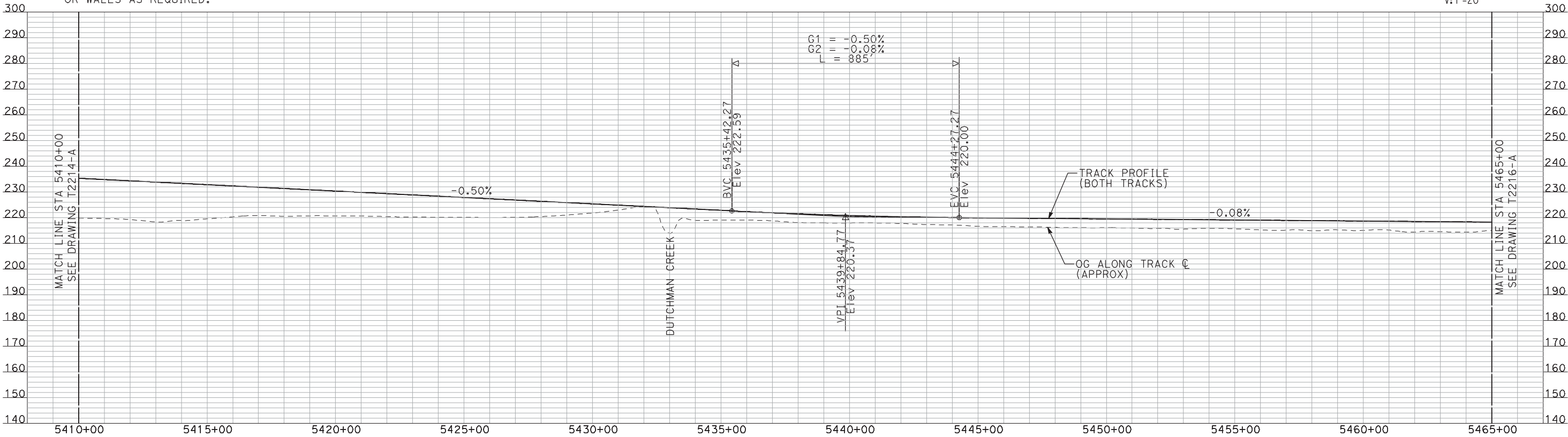
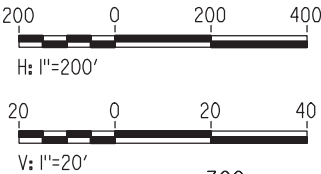
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
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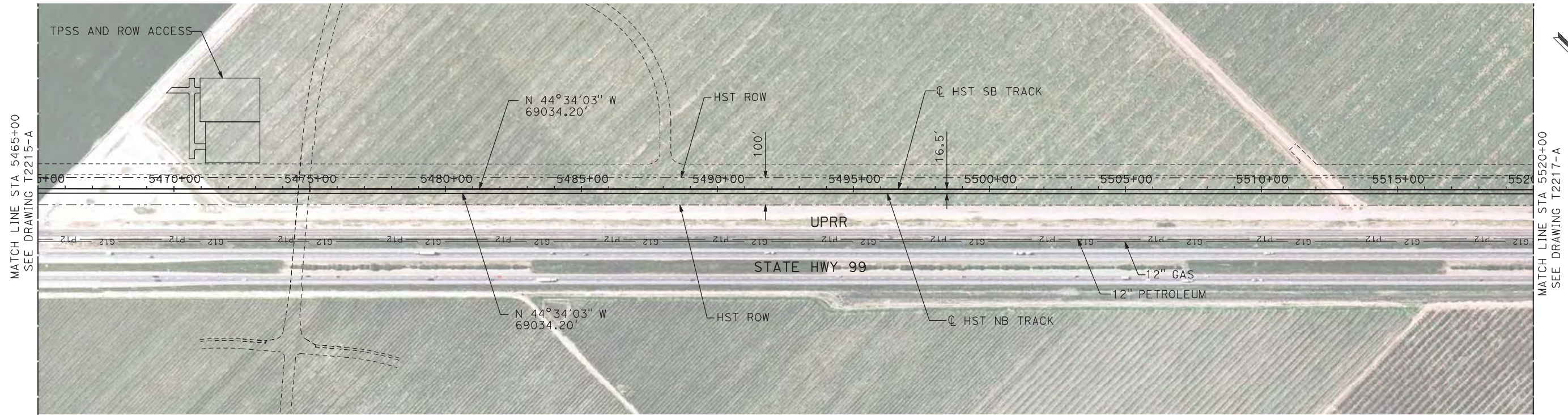


CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

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| DRAWING NO. T2215-A |
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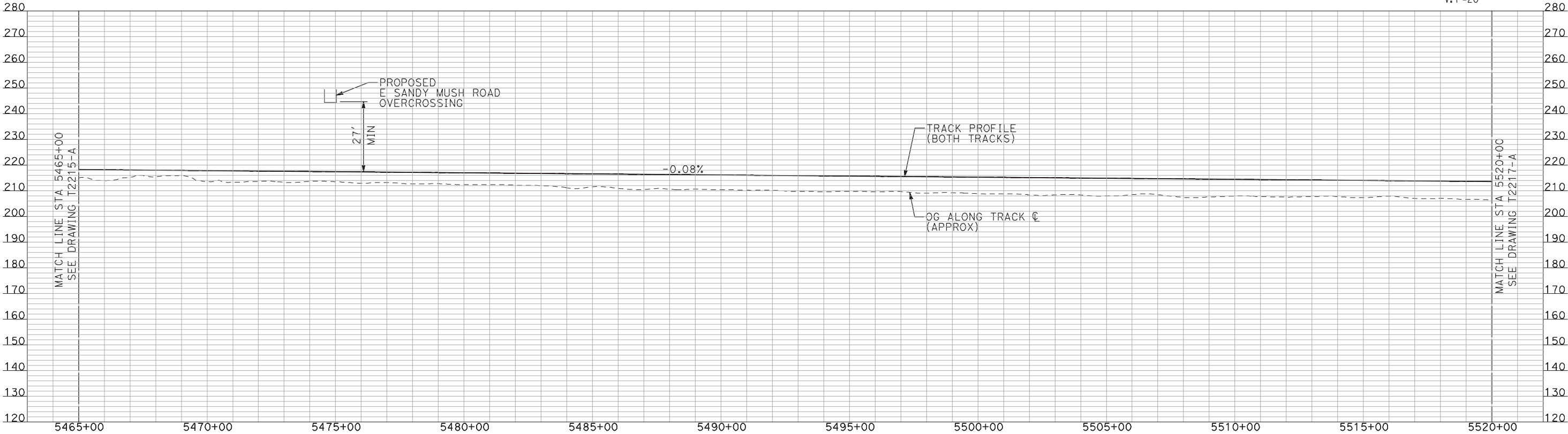
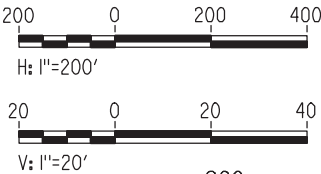
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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SUBMITTAL

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CONSTRUCTION



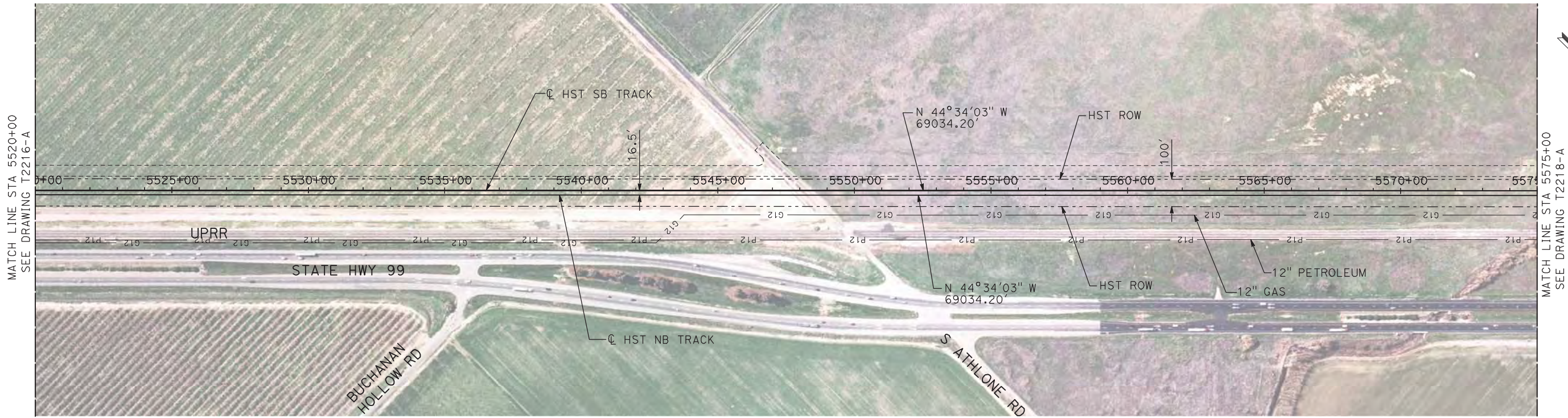
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

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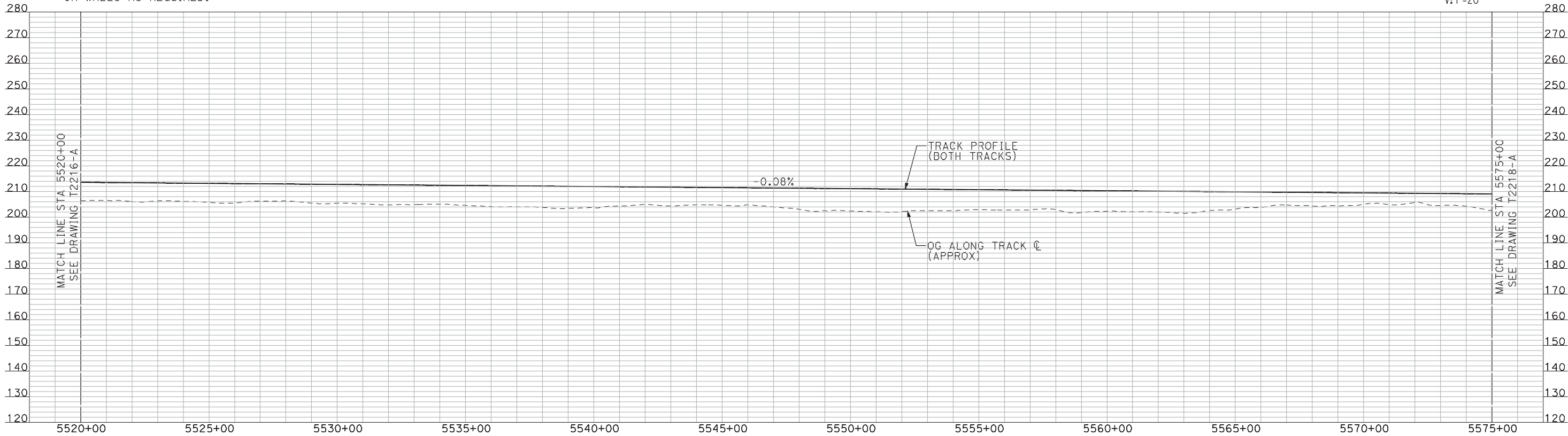
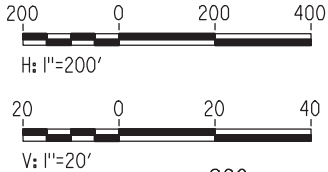
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

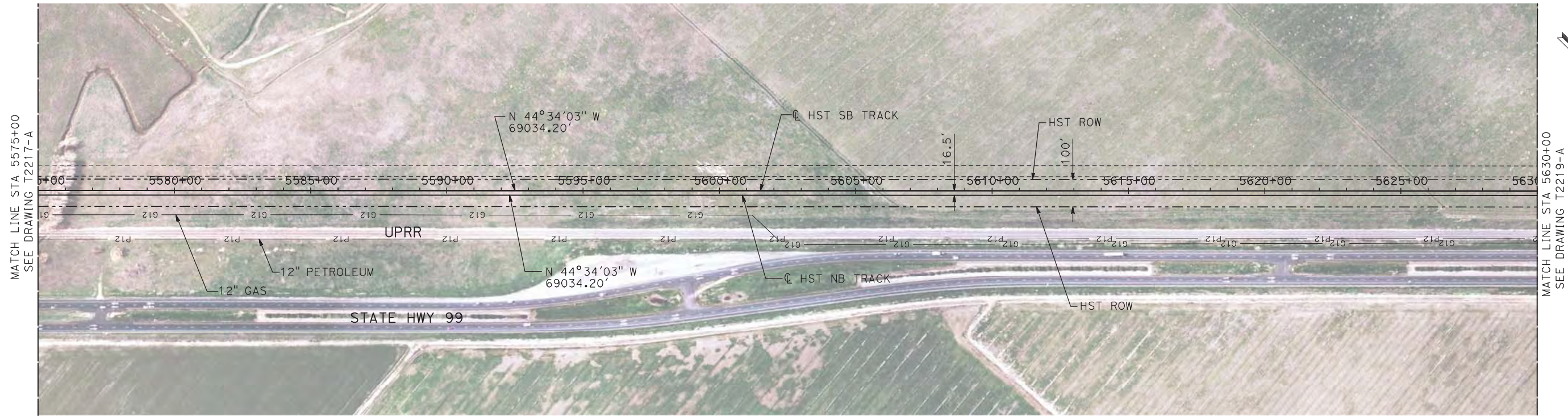
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5520+00 TO STA 5575+00

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| CONTRACT NO. HSR06-007 |
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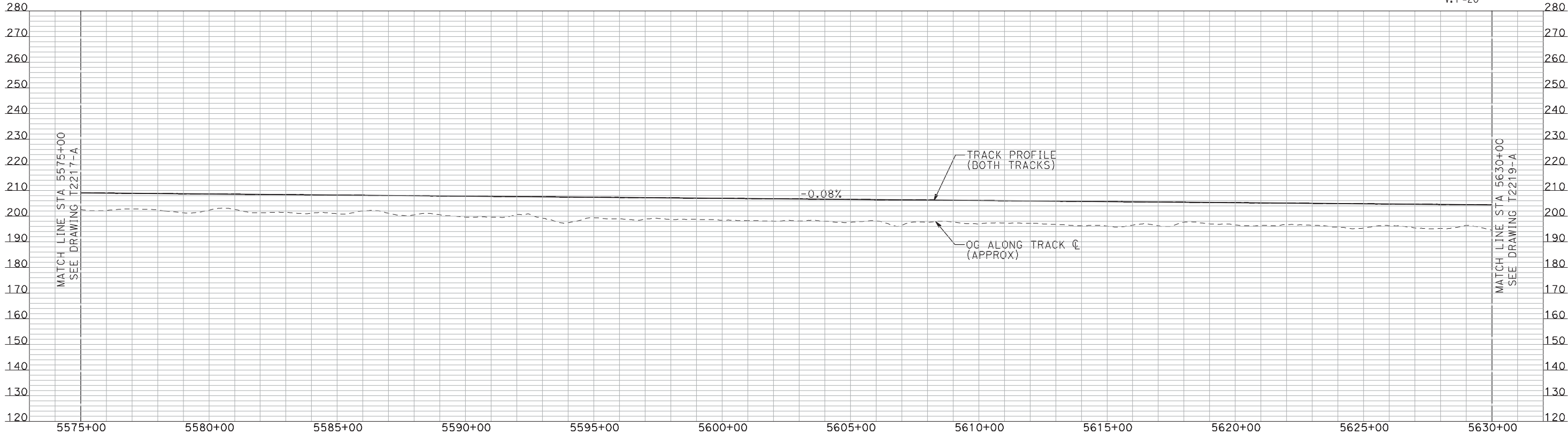
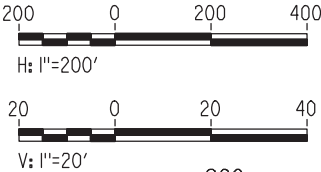
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NOTES:

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PLAN



PROFILE

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| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
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RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION



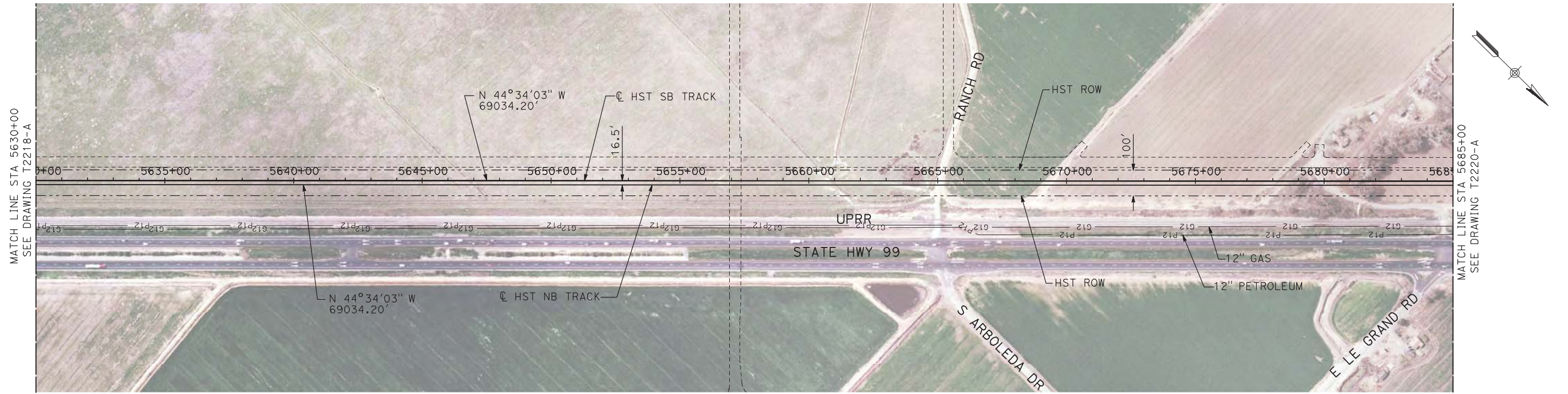
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5575+00 TO STA 5630+00

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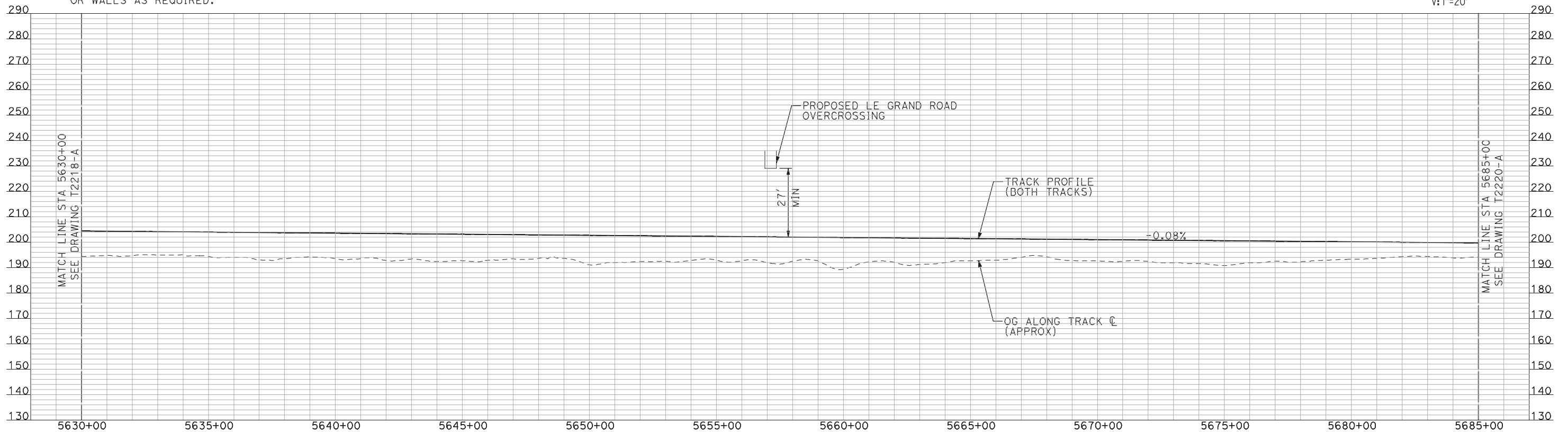
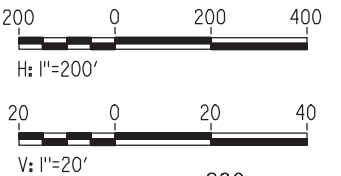
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

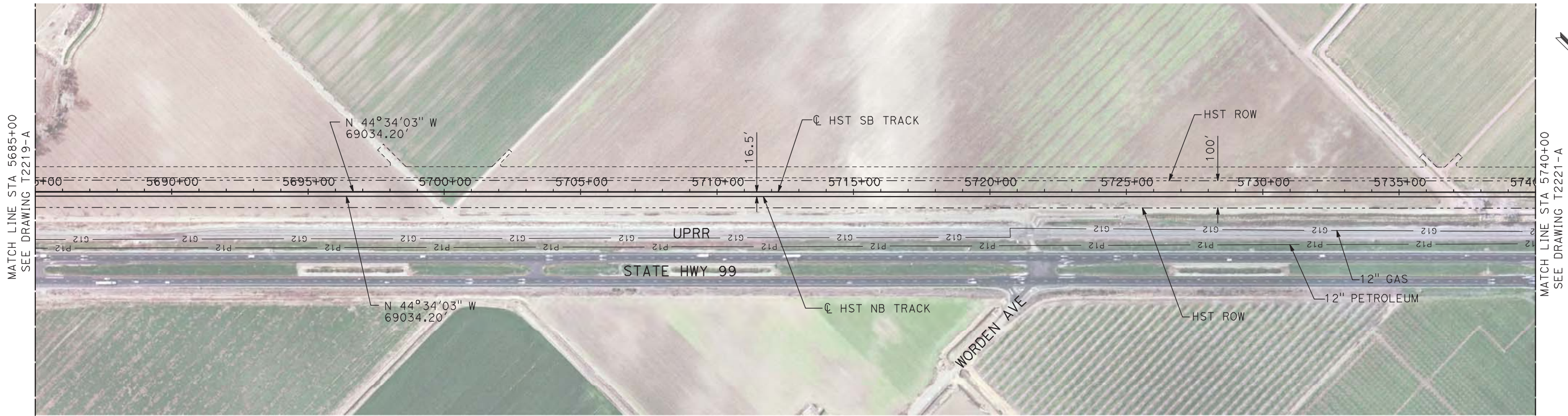


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5630+00 TO STA 5685+00

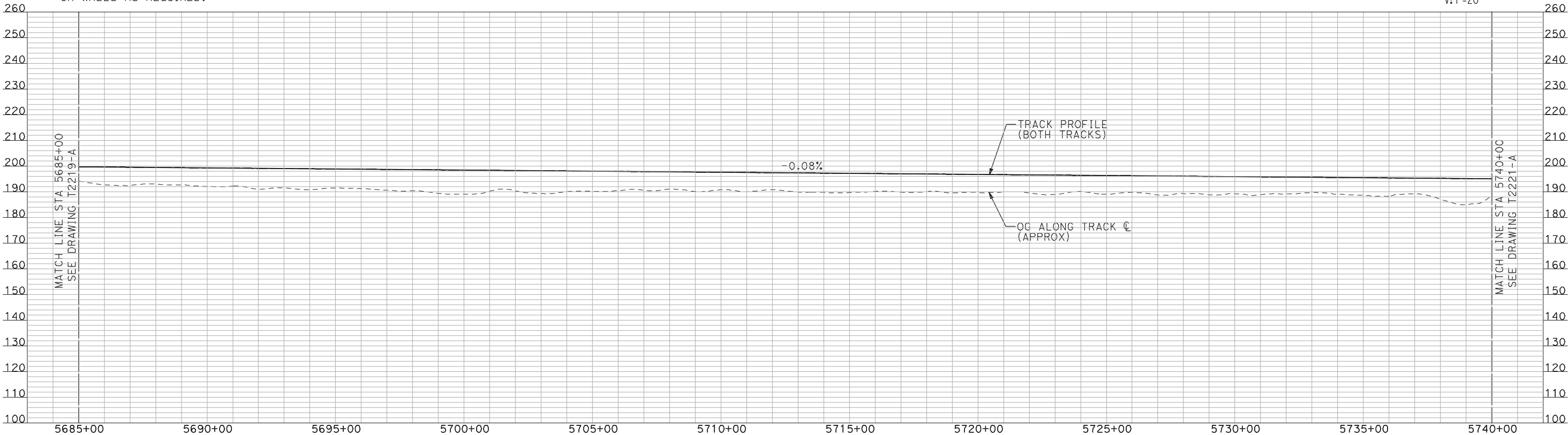
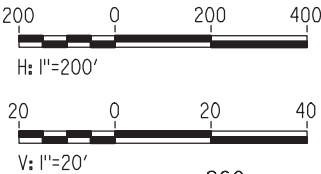
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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2219-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

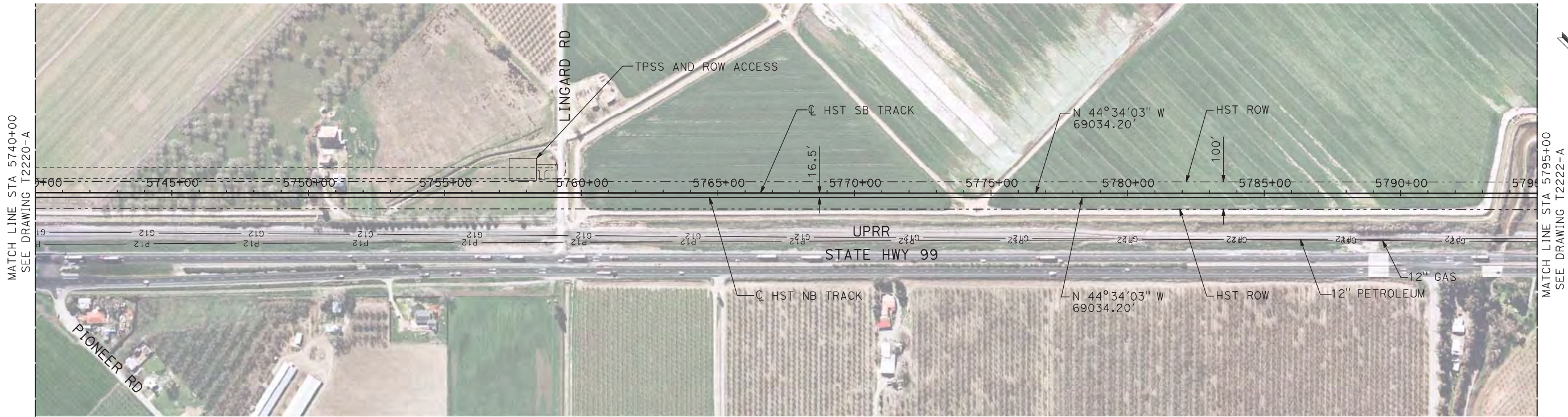
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5685+00 TO STA 5740+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2220-A |
| SCALE AS SHOWN |
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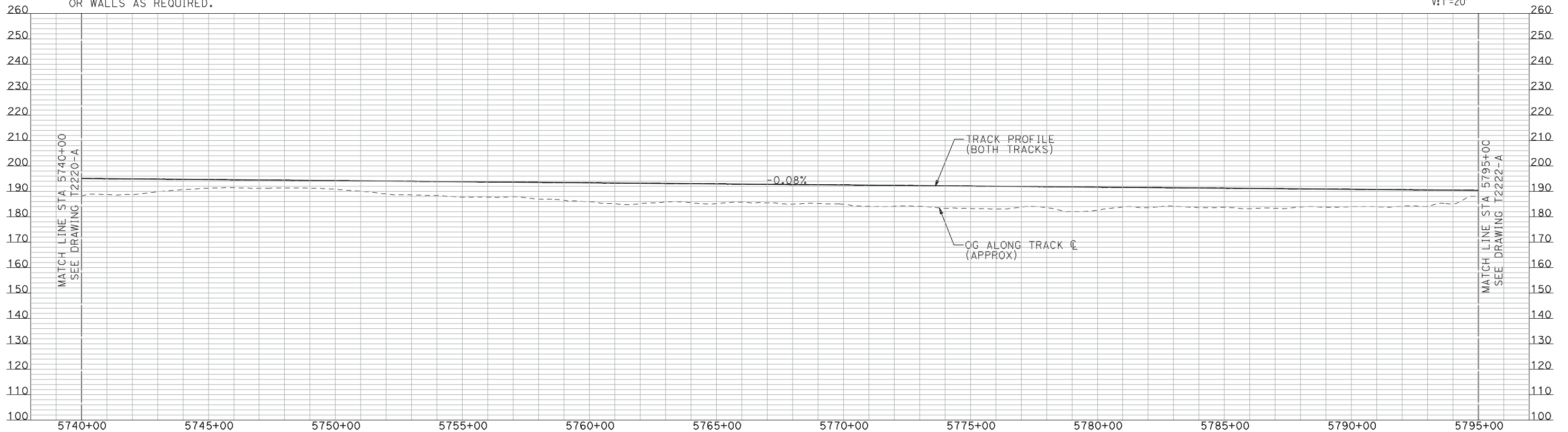
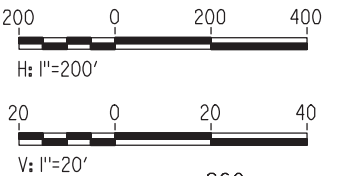
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

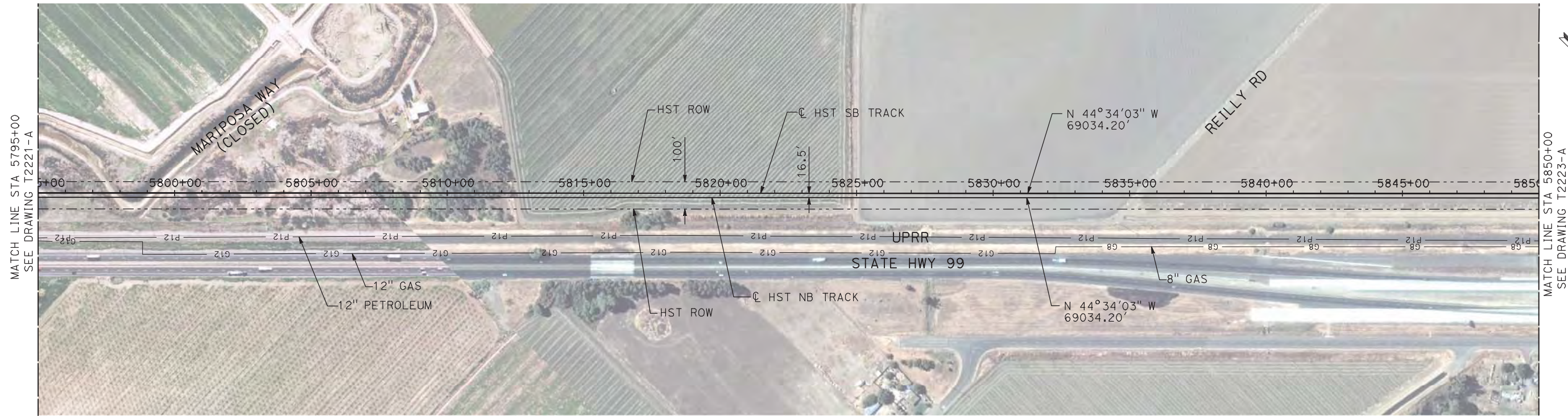
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION
PLAN AND PROFILE
STA 5740+00 TO STA 5795+00

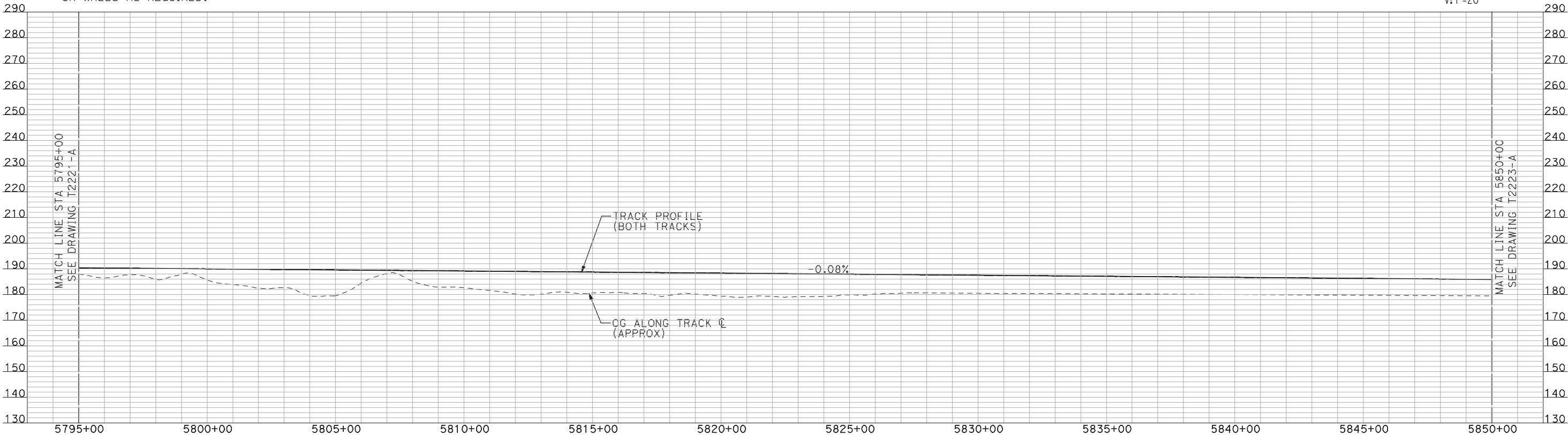
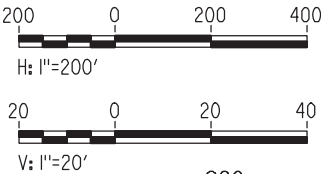
CONTRACT NO.
HSR06-007
DRAWING NO.
T2221-A
SCALE
AS SHOWN
SHEET NO.
OF



NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

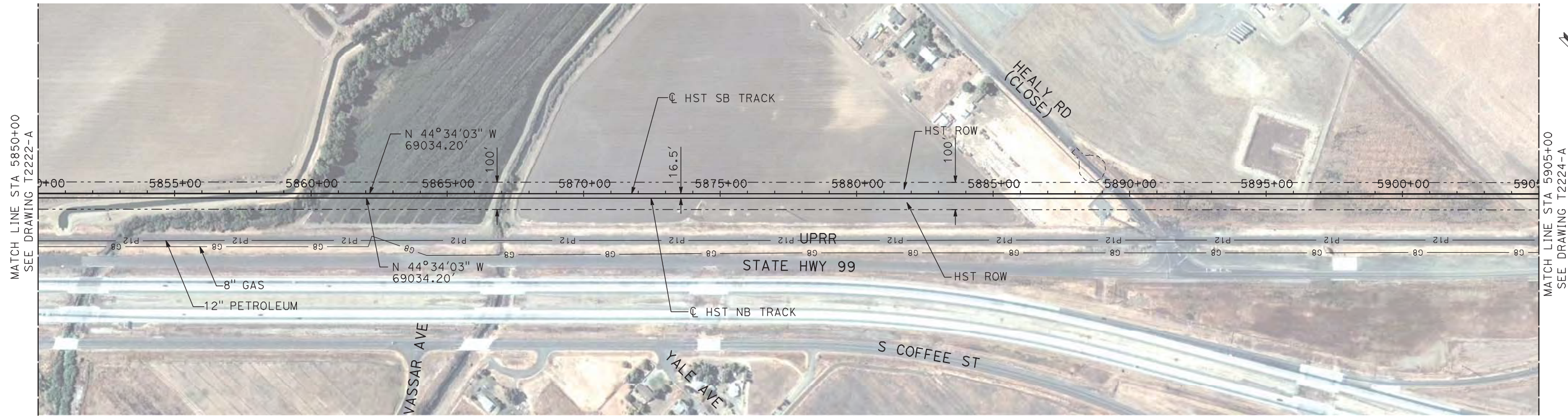
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5795+00 TO STA 5850+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2222-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

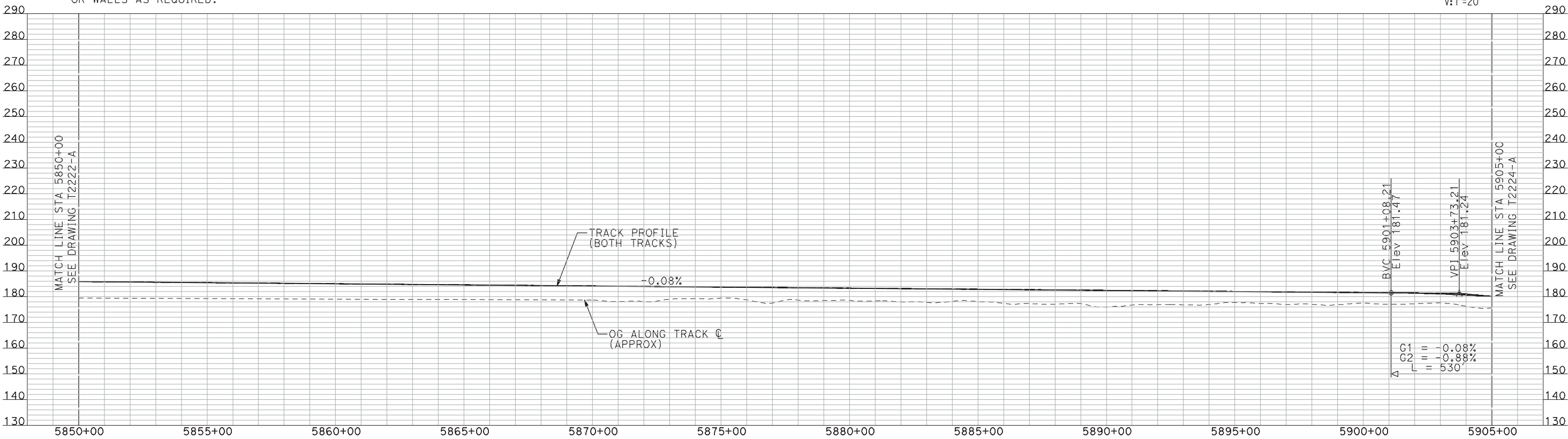
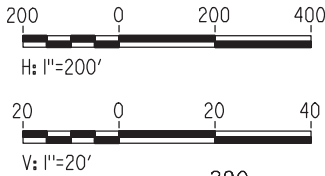
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5850+00 TO STA 5905+00

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| DRAWING NO. T2223-A |
| SCALE AS SHOWN |
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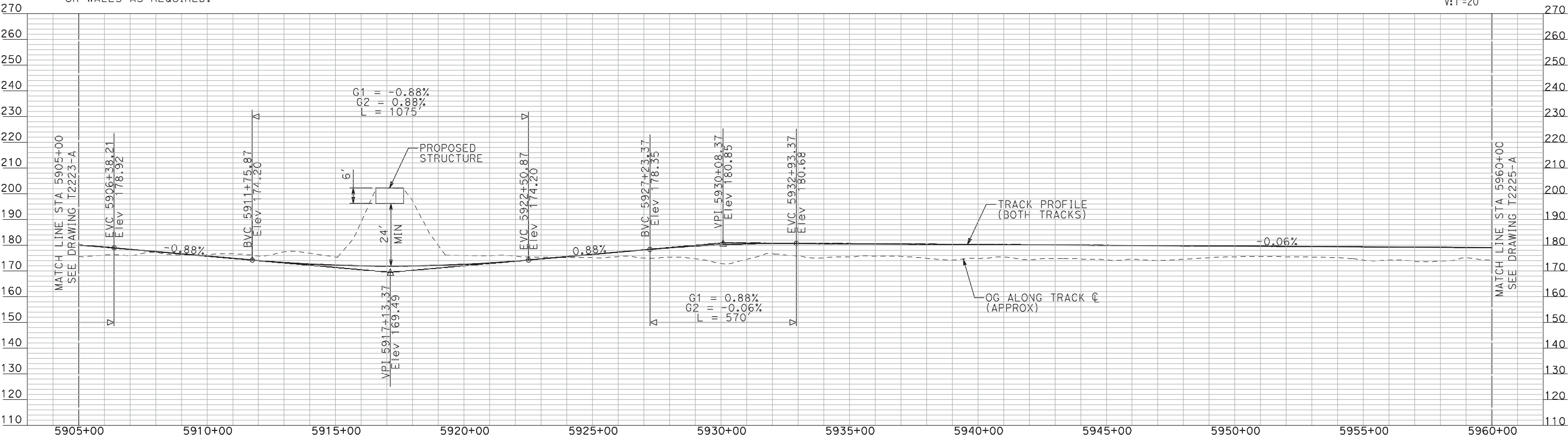
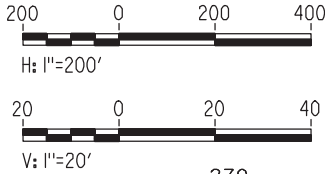
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2M HILL



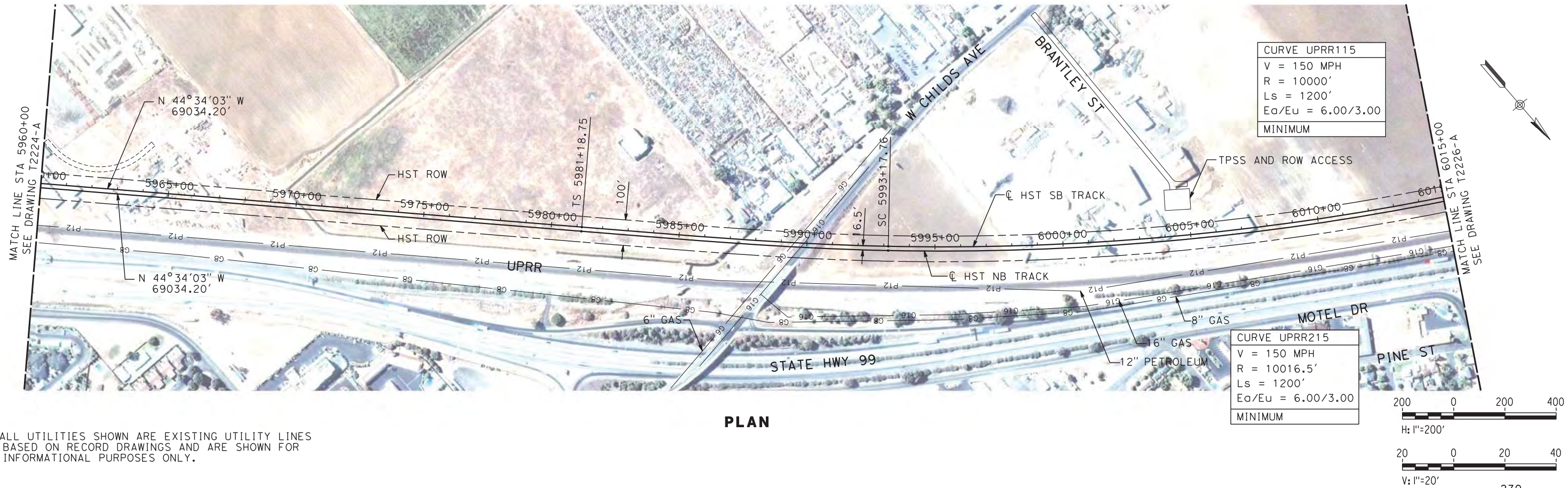
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5905+00 TO STA 5960+00

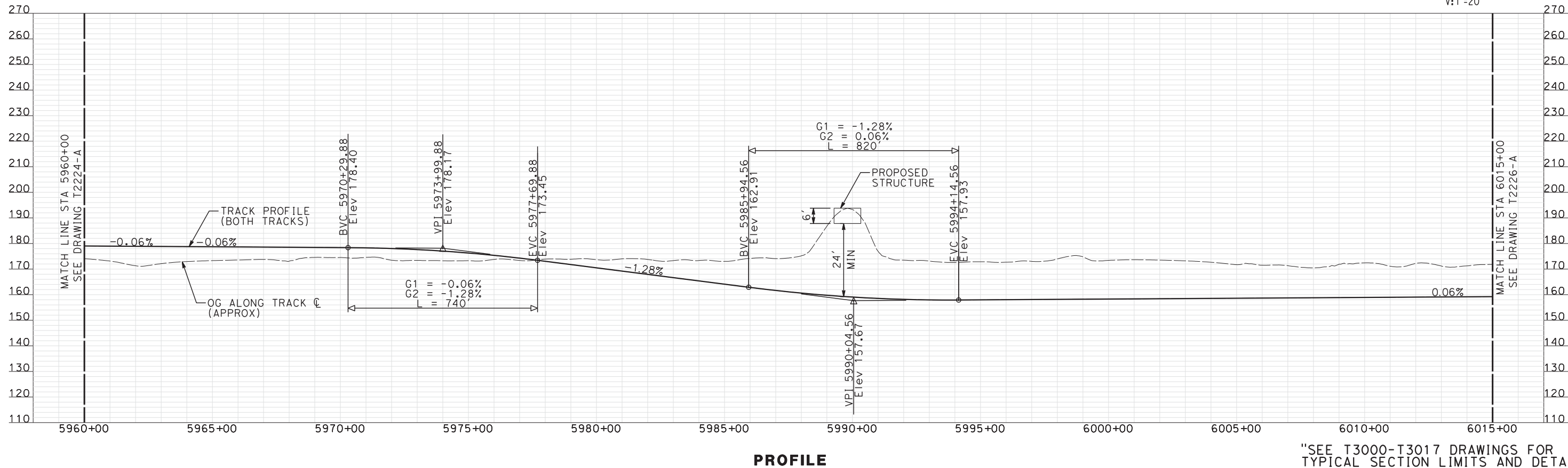
CONTRACT NO.
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shieldsa



NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

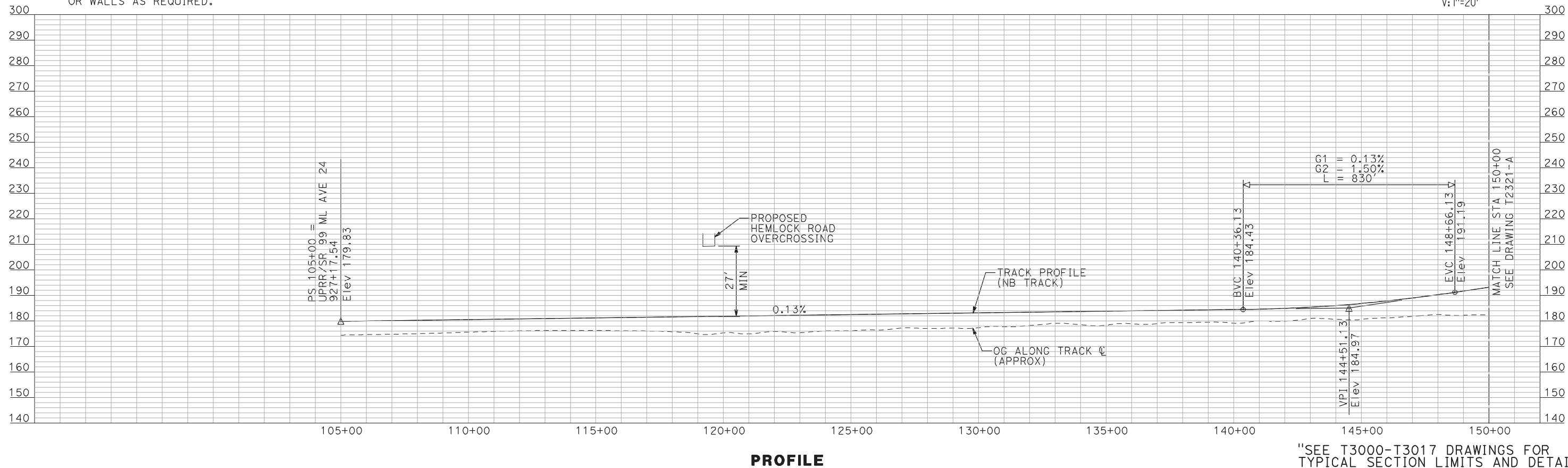
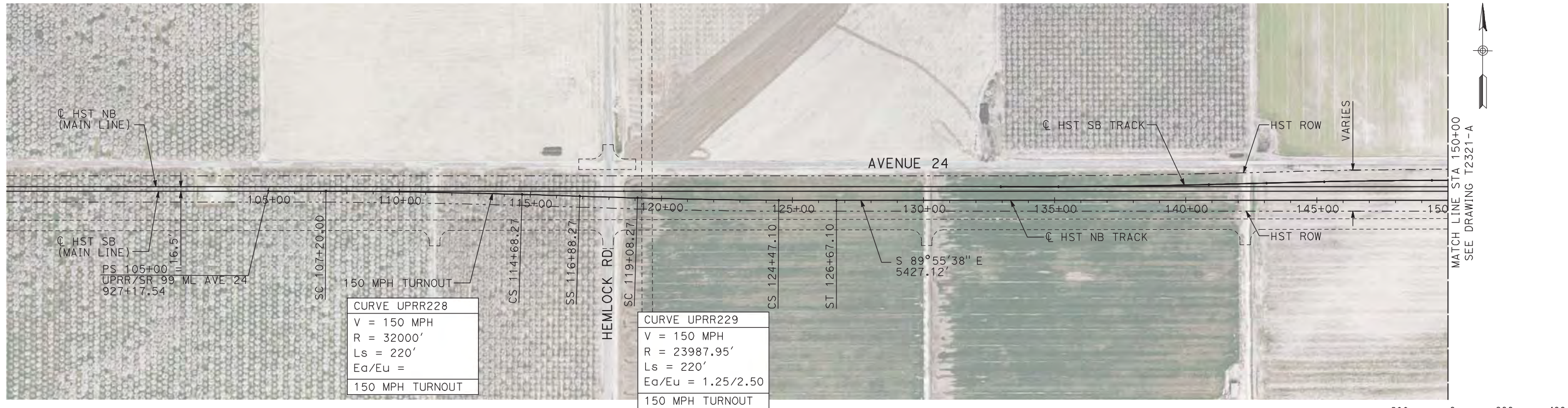
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 MERCED CONNECTION

PLAN AND PROFILE
STA 5960+00 TO STA 6015+00

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| CONTRACT NO. HSR06-007 |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

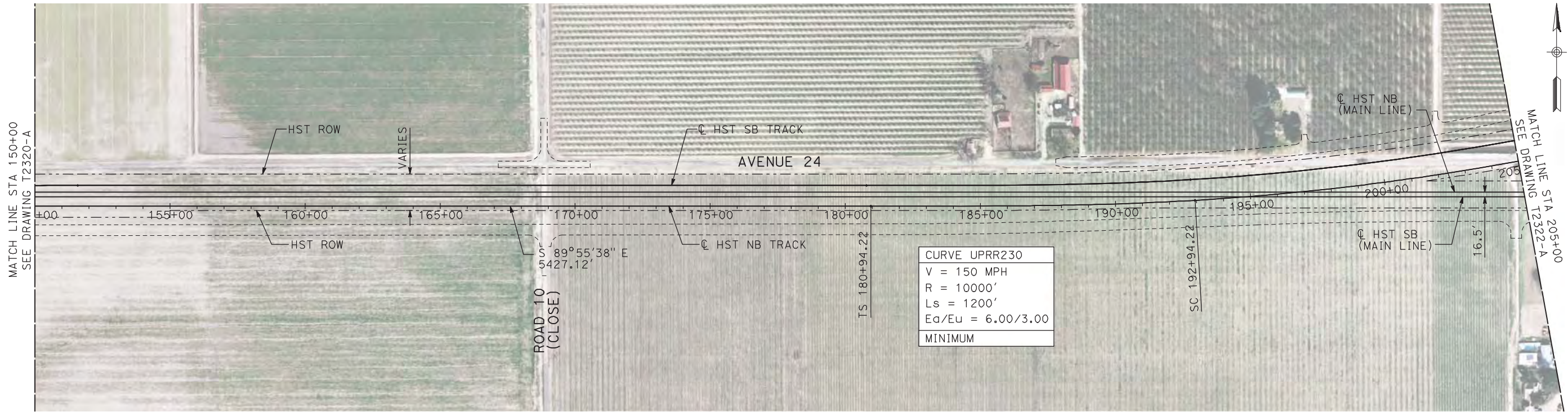
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 105+00 TO STA 150+00

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| CONTRACT NO. HSR06-007 |
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| SCALE AS SHOWN |
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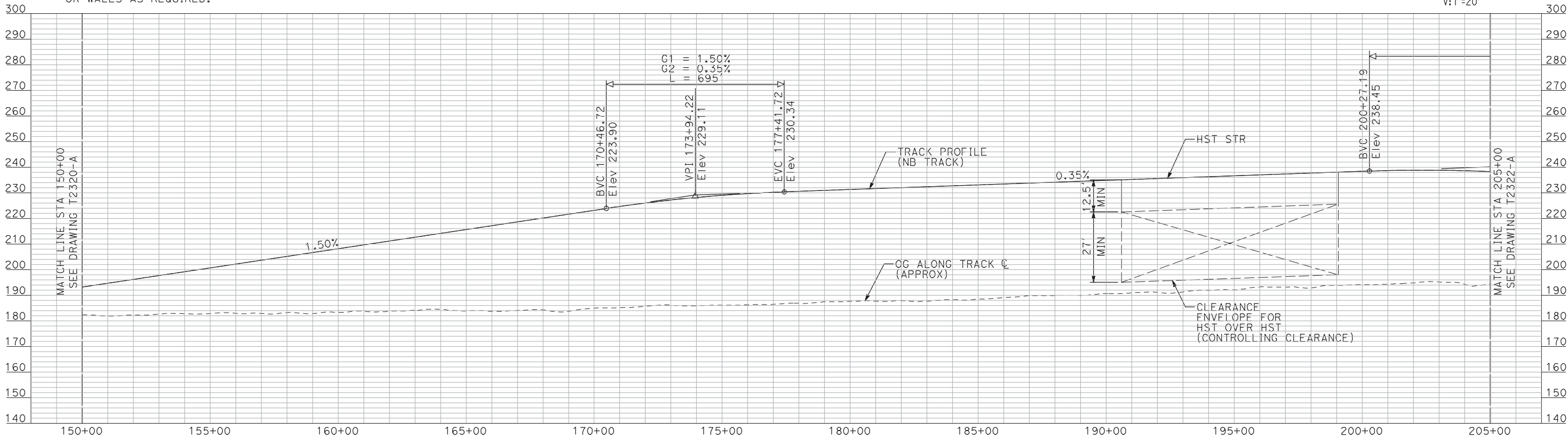
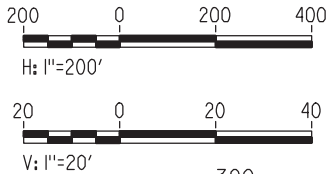
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NOTES:

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PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS

DRAWN BY
H. SULLIVAN

CHECKED BY
A. BOONE

IN CHARGE
A. BOONE

DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 150+00 TO STA 205+00

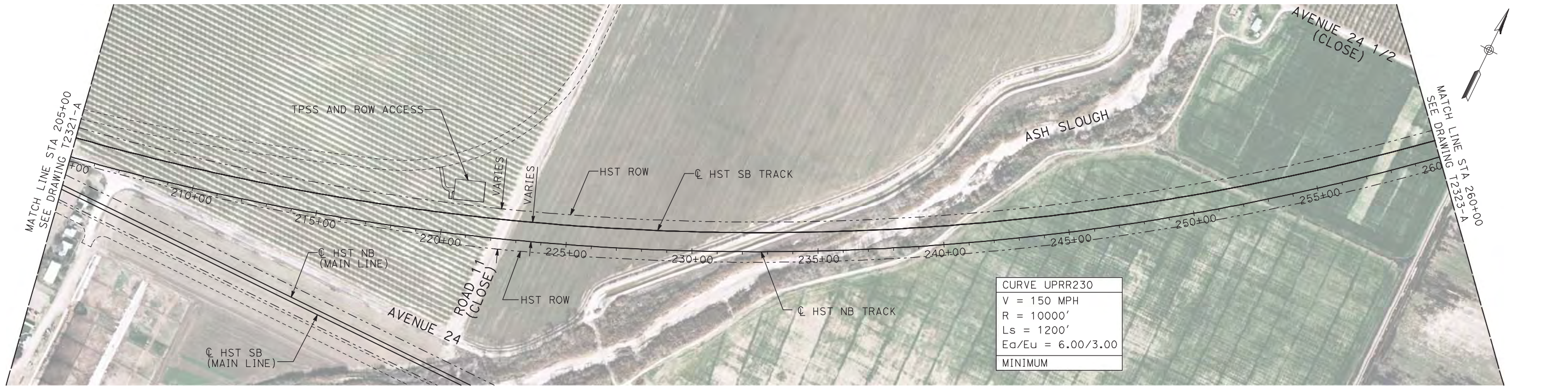
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HSR06-007

DRAWING NO.
T2321-A

SCALE
AS SHOWN

SHEET NO.
OF

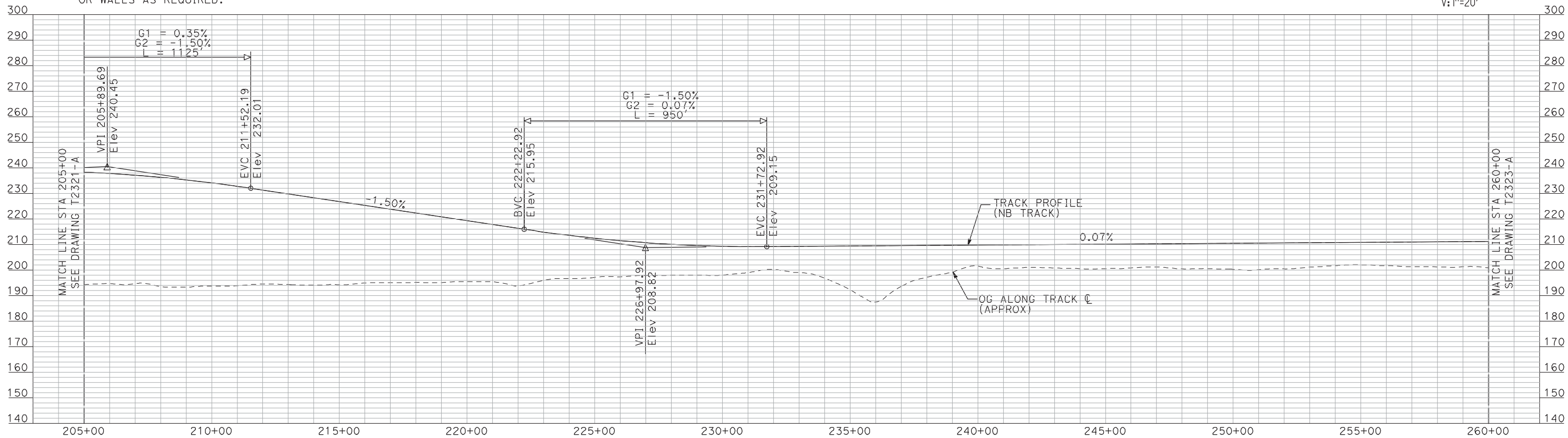
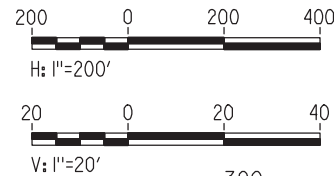
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

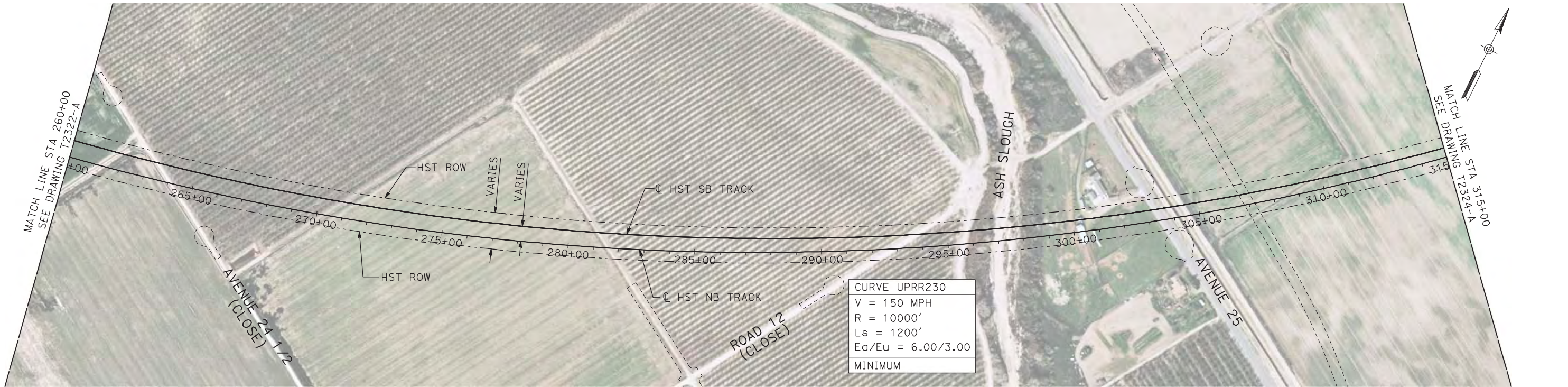
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 205+00 TO STA 260+00

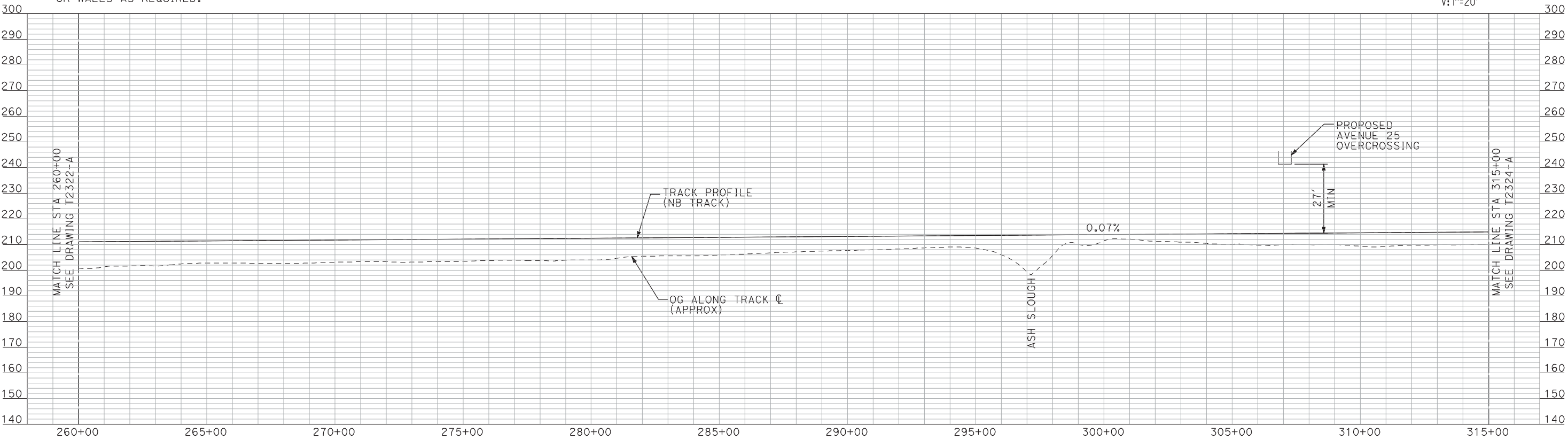
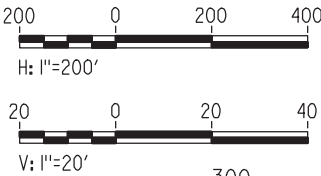
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

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CONSTRUCTION



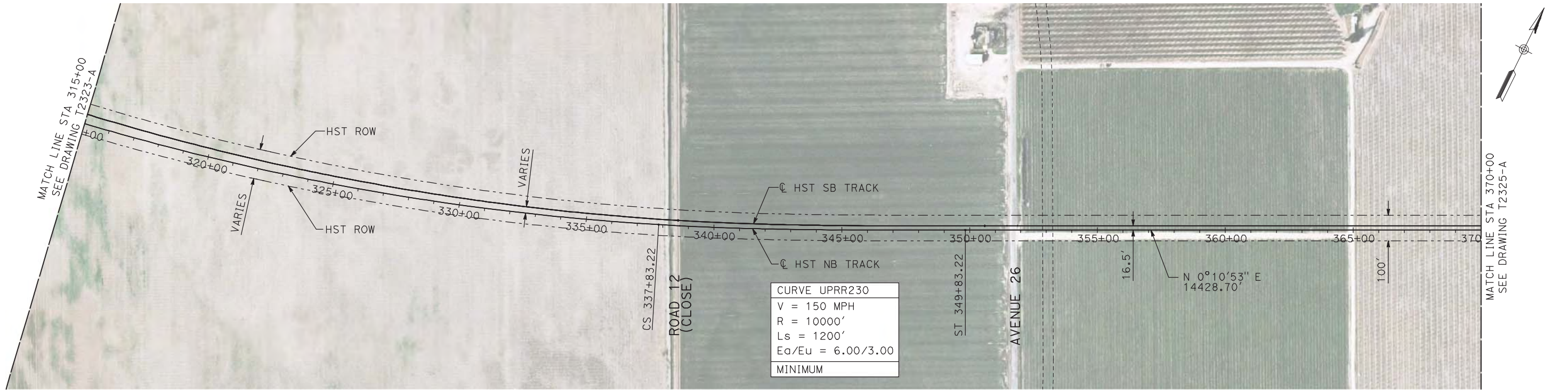
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 260+00 TO STA 315+00

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| DRAWING NO. T2323-A |
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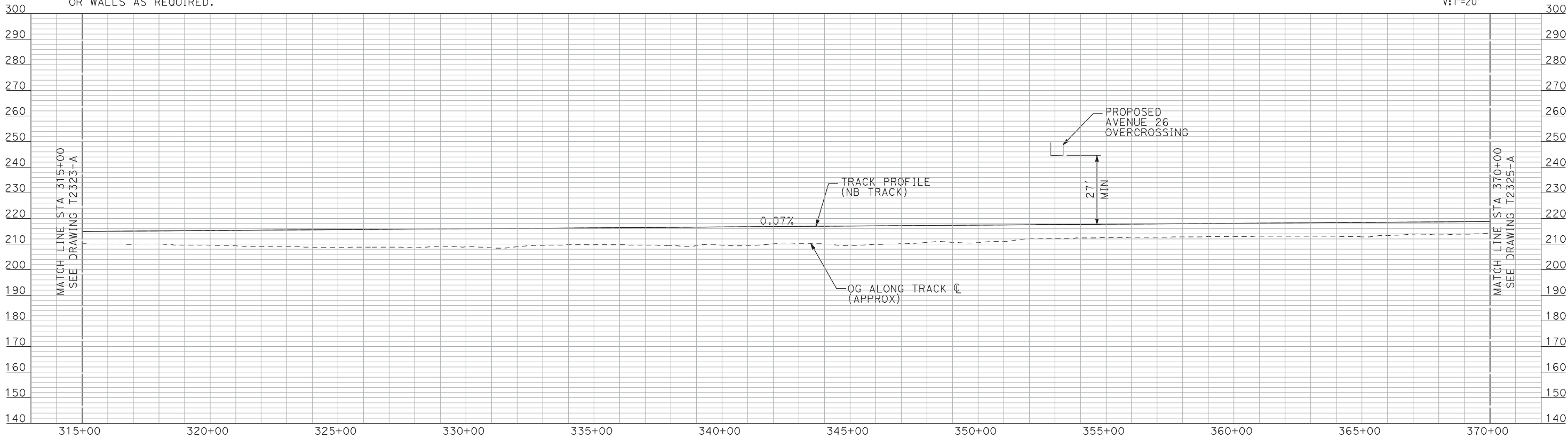
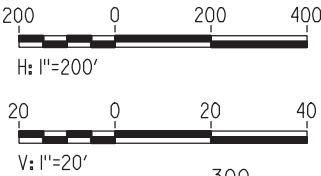
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

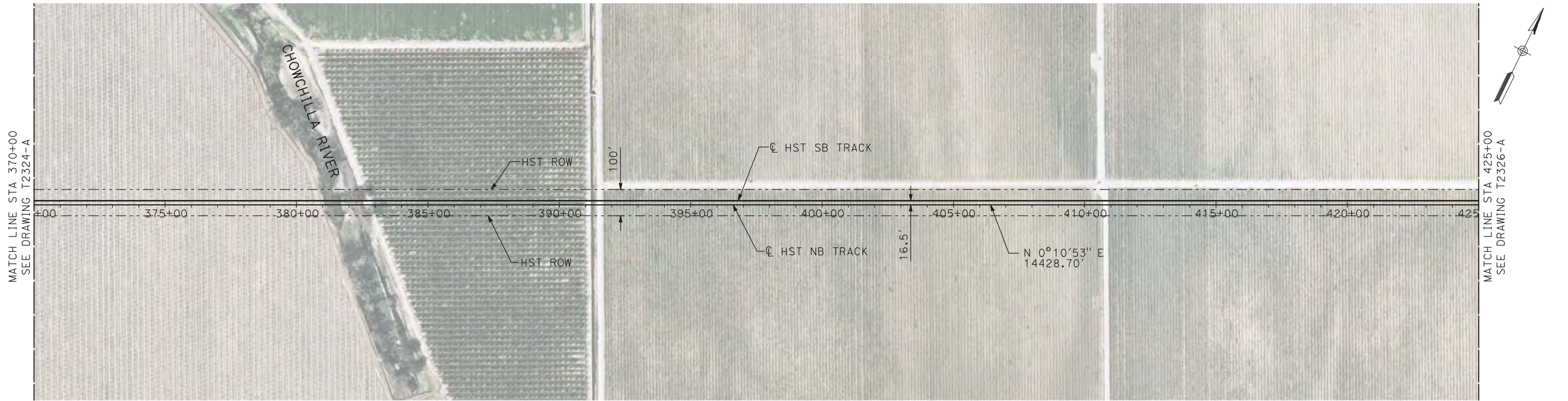


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 315+00 TO STA 370+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2324-A |
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| SHEET NO. ### OF ### |

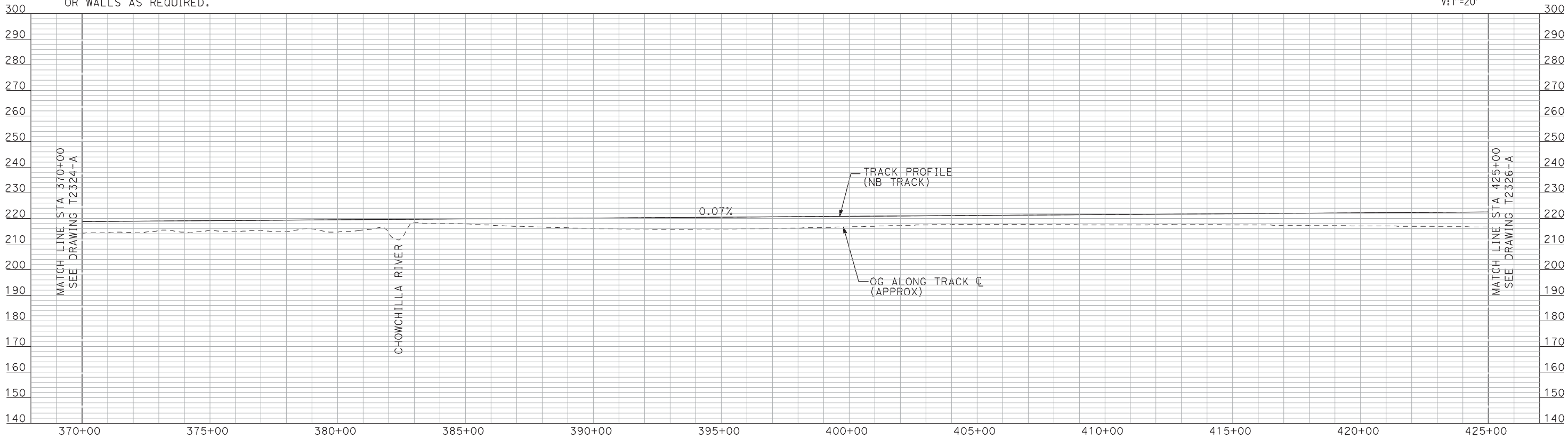
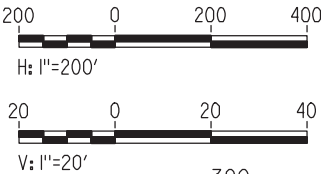
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

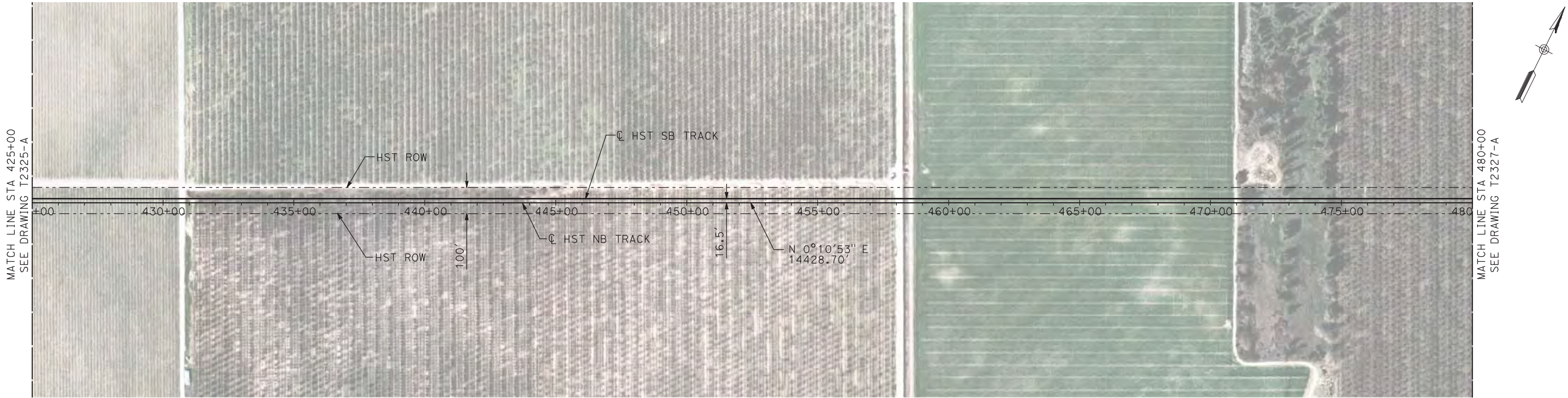
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 370+00 TO STA 425+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2325-A |
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| SHEET NO. ### OF ### |

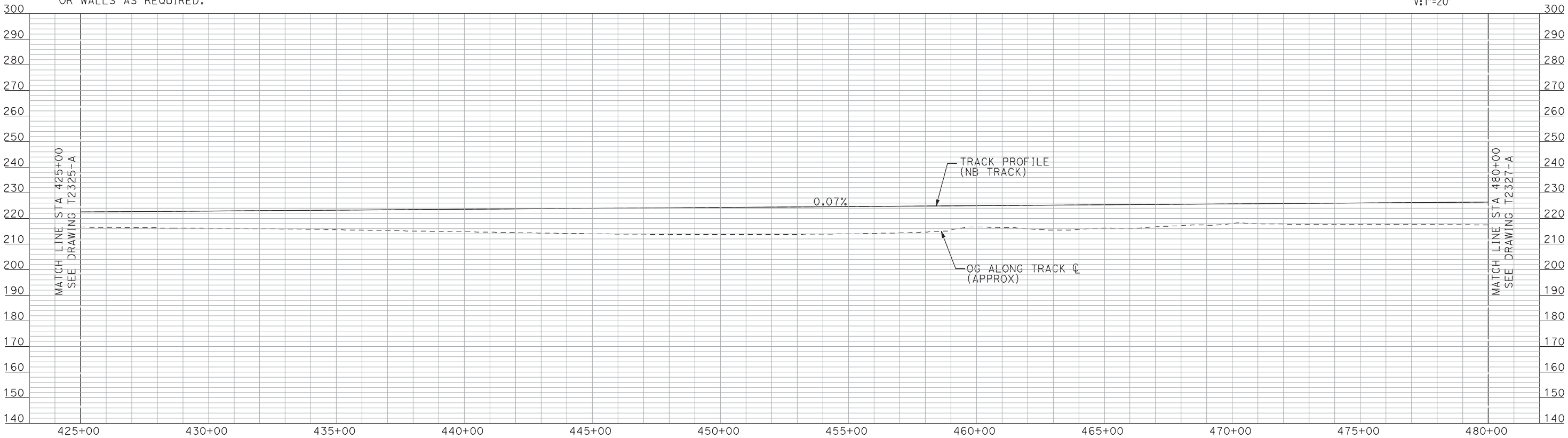
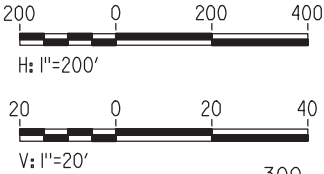
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**



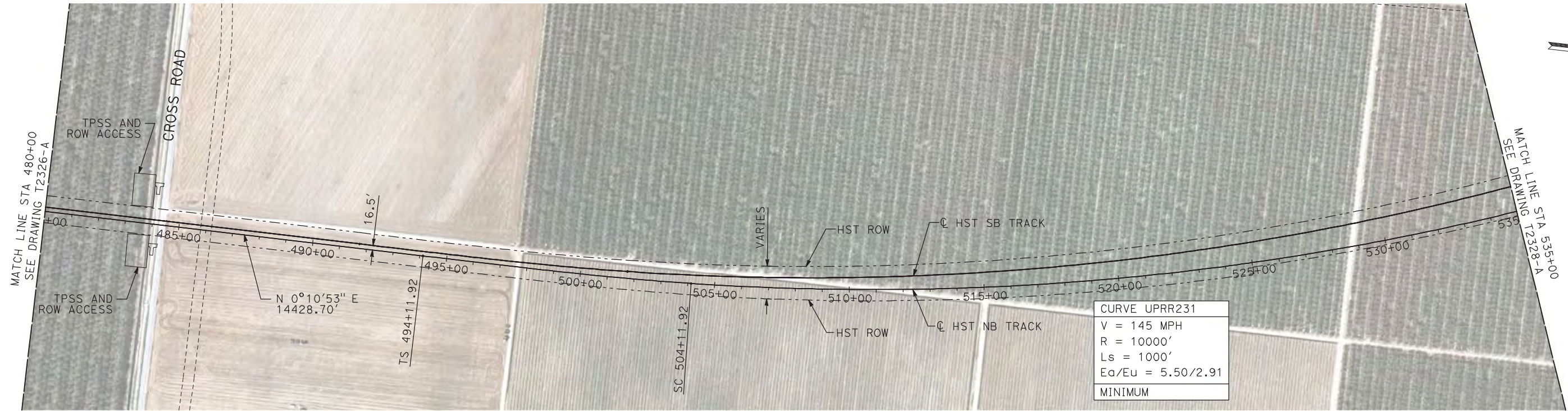
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 425+00 TO STA 480+00

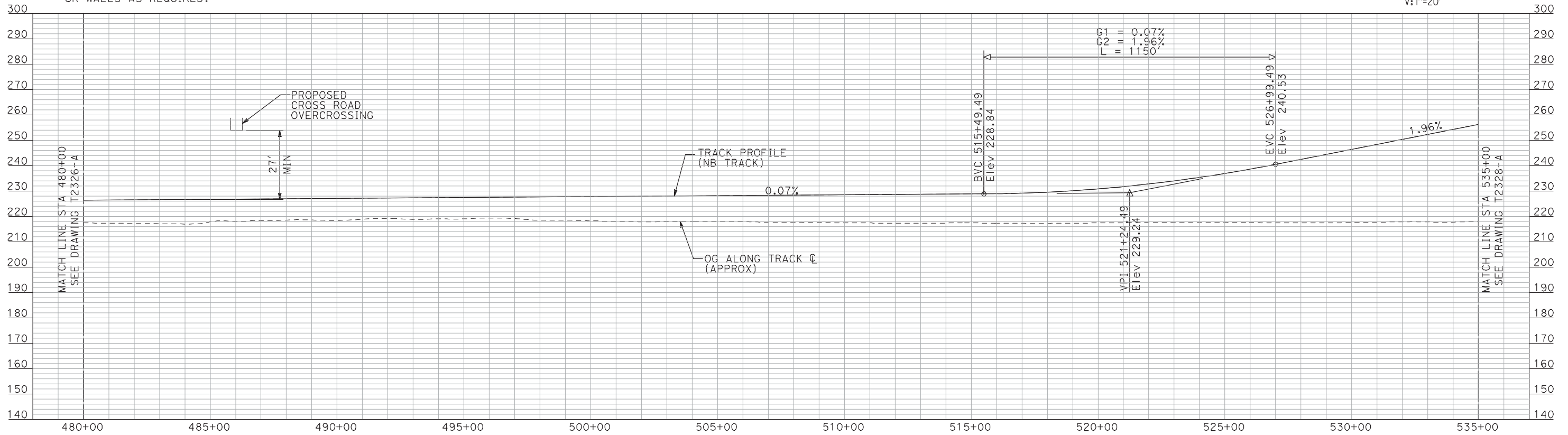
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL

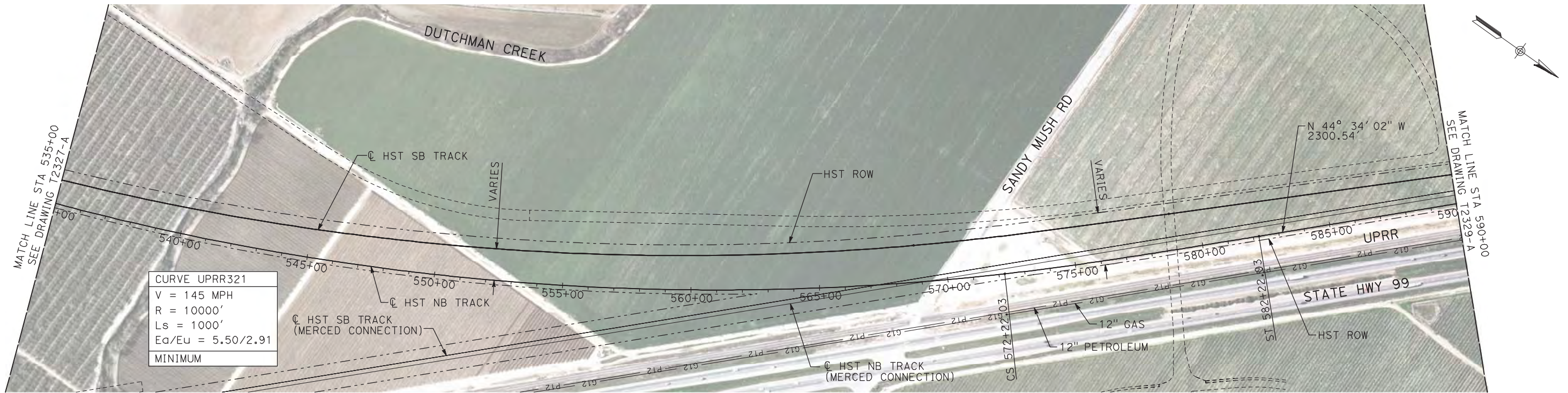


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 480+00 TO STA 535+00

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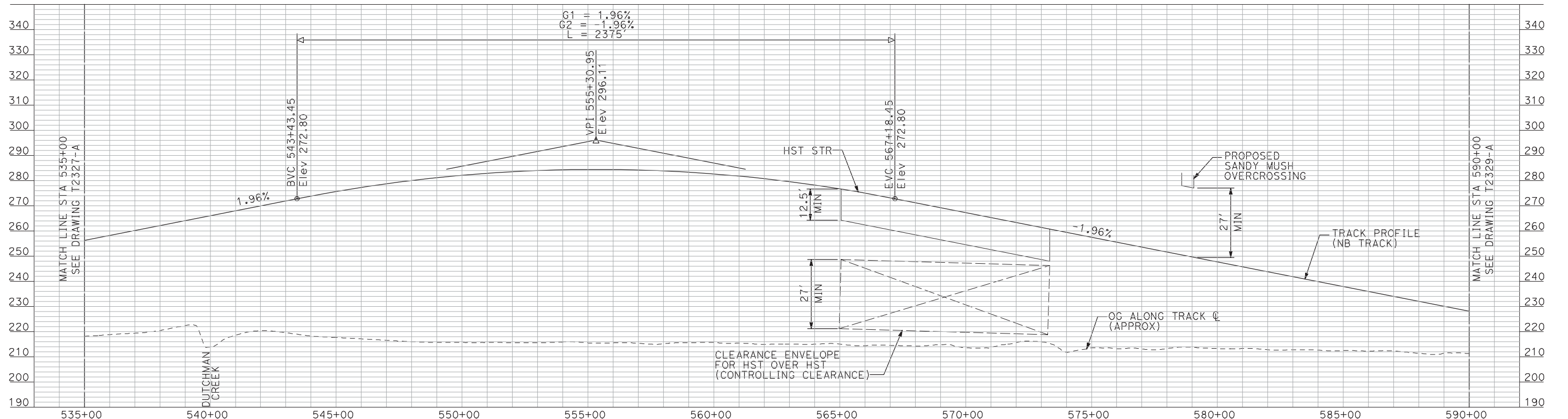
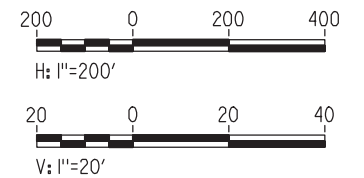
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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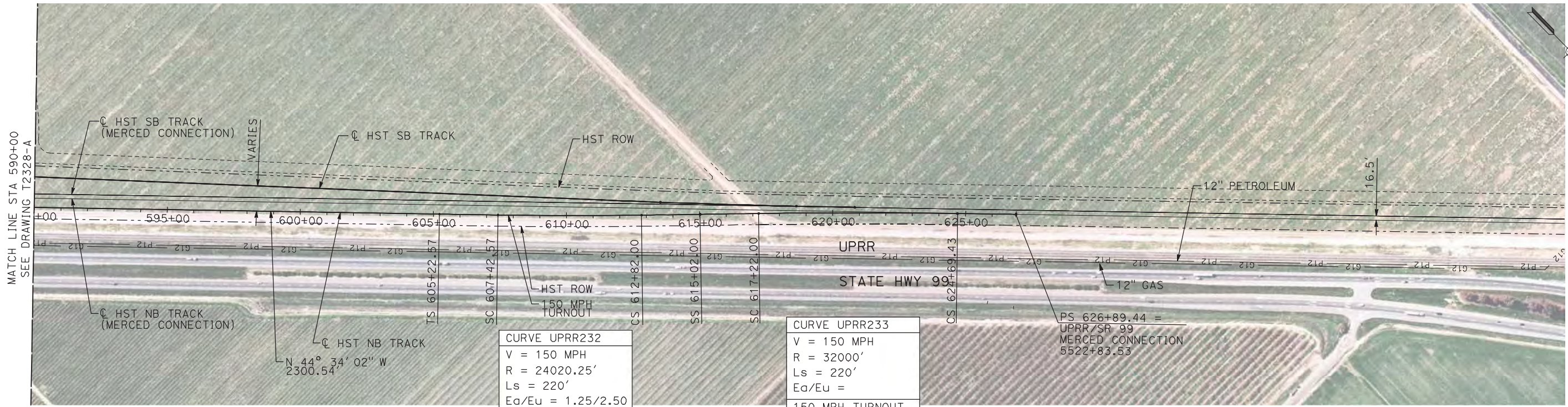
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 535+00 TO STA 590+00

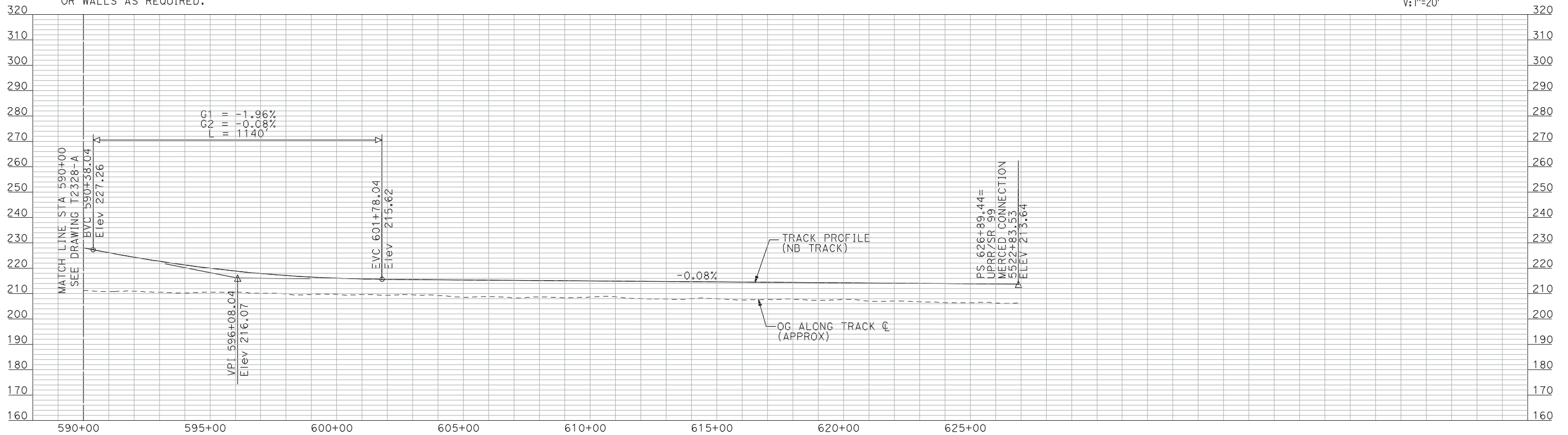
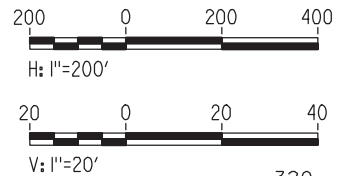
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

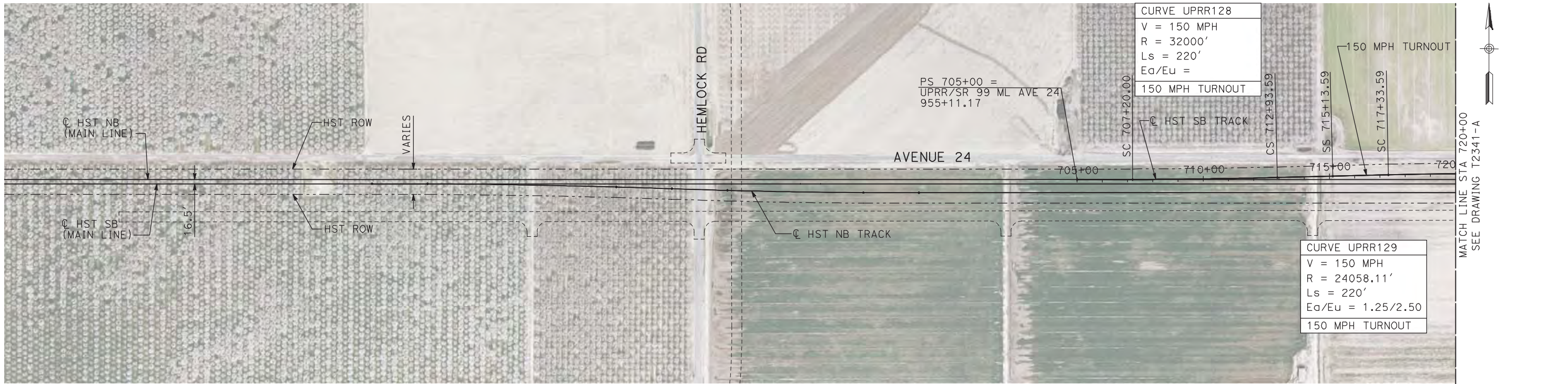
CH2M HILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 590+00 TO STA 626+89.44

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| CONTRACT NO. HSR06-007 |
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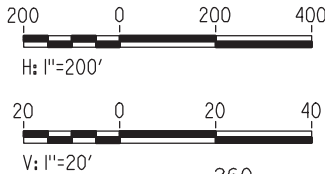
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

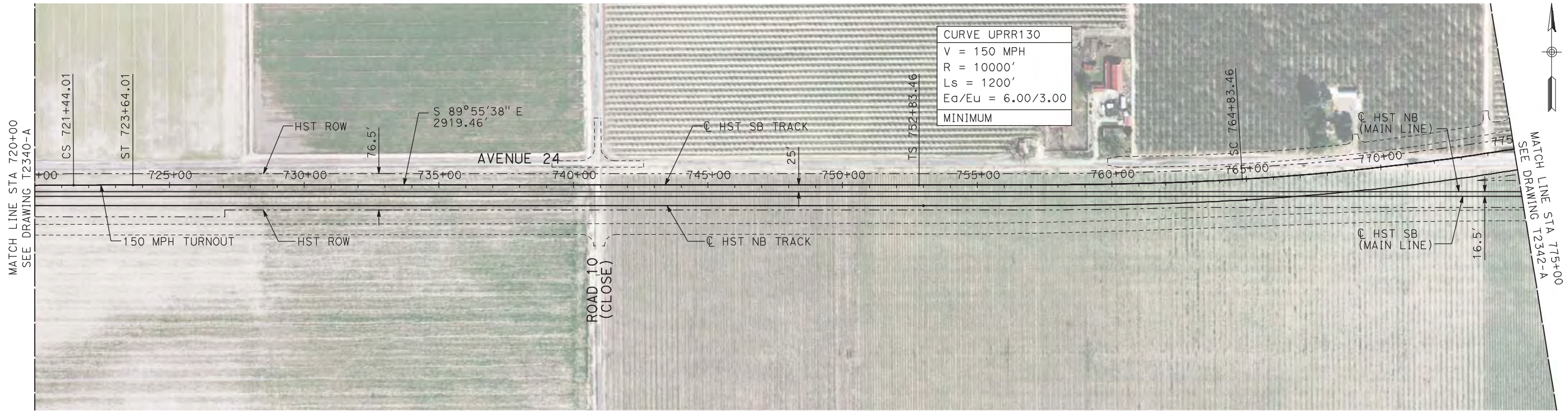
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 705+00 TO STA 720+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2340-A |
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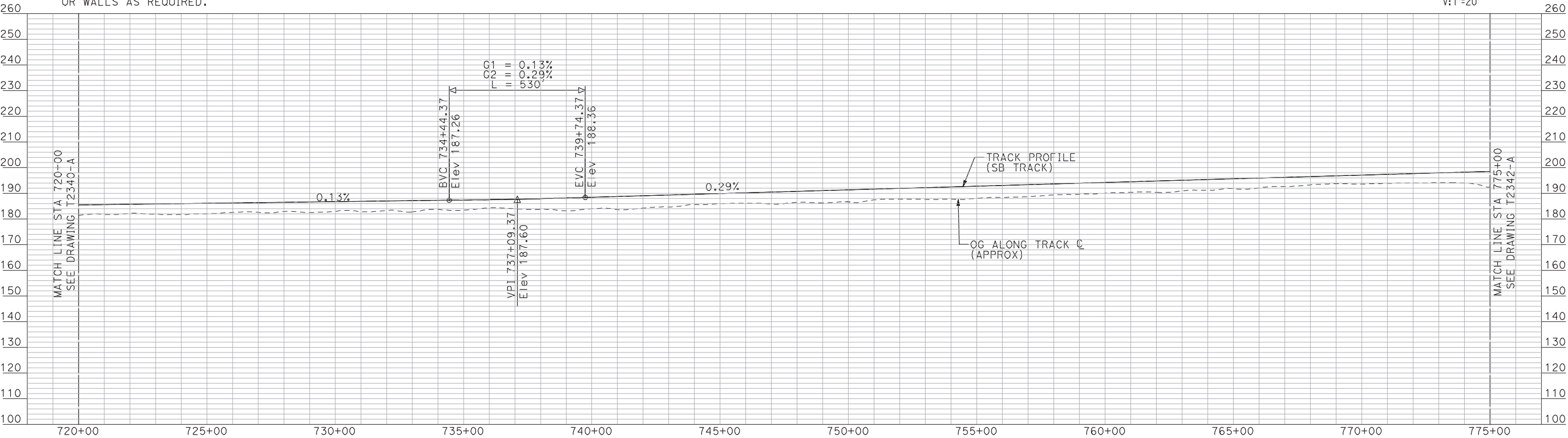
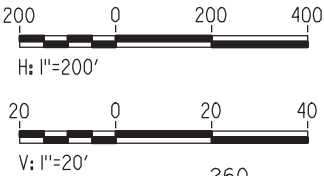
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

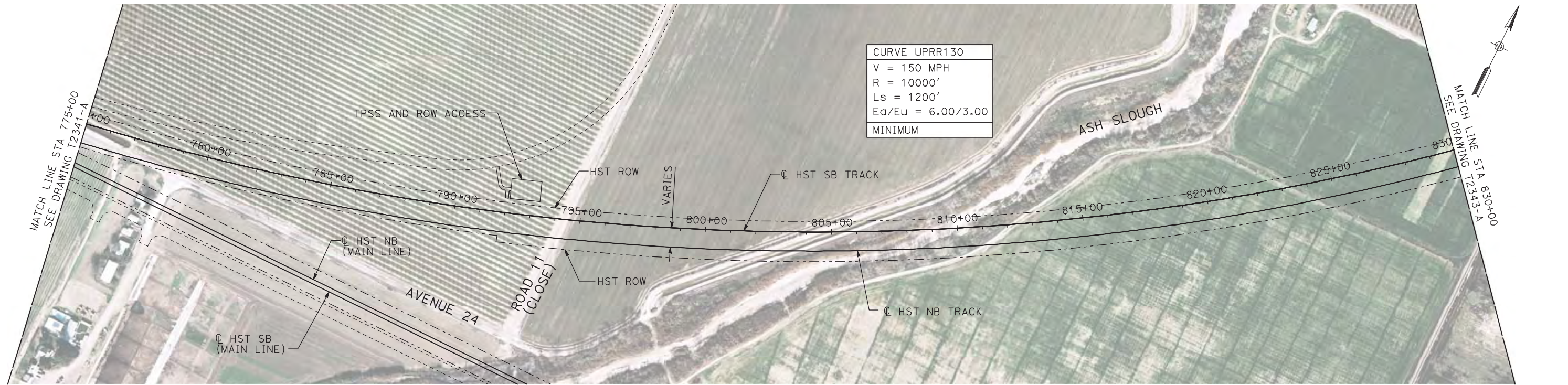


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 720+00 TO STA 775+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2341-A |
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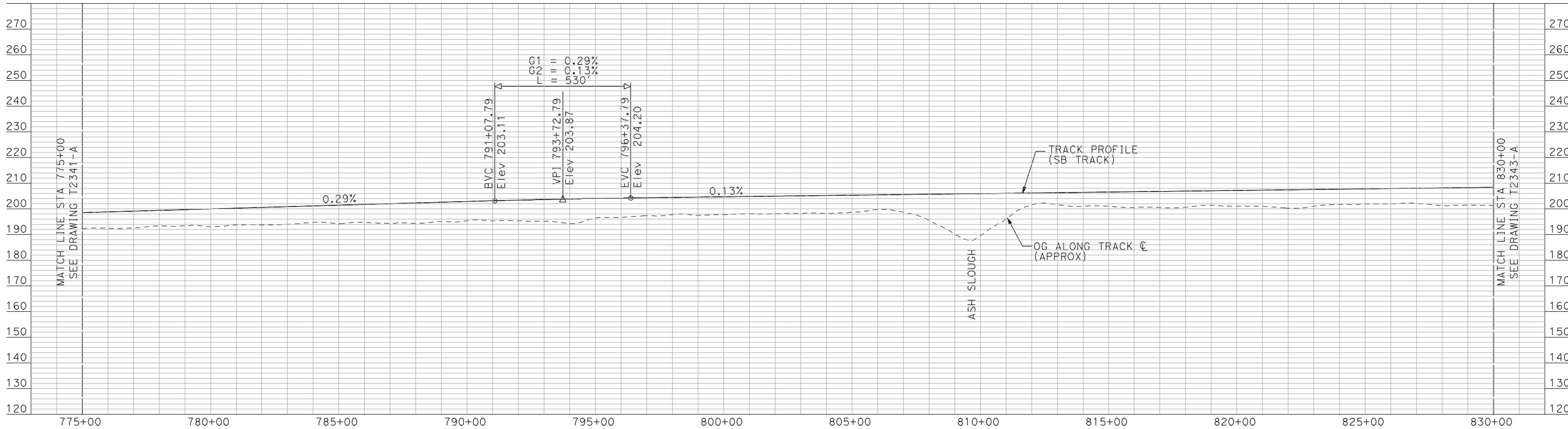
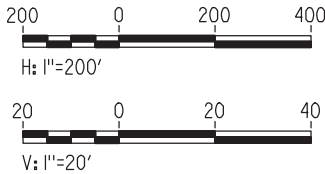
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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DESIGNED BY
A. SHIELDS
DRAWN BY
H. SULLIVAN
CHECKED BY
A. BOONE
IN CHARGE
A. BOONE
DATE
07/20/2011

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CH2M HILL



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 775+00 TO STA 830+00

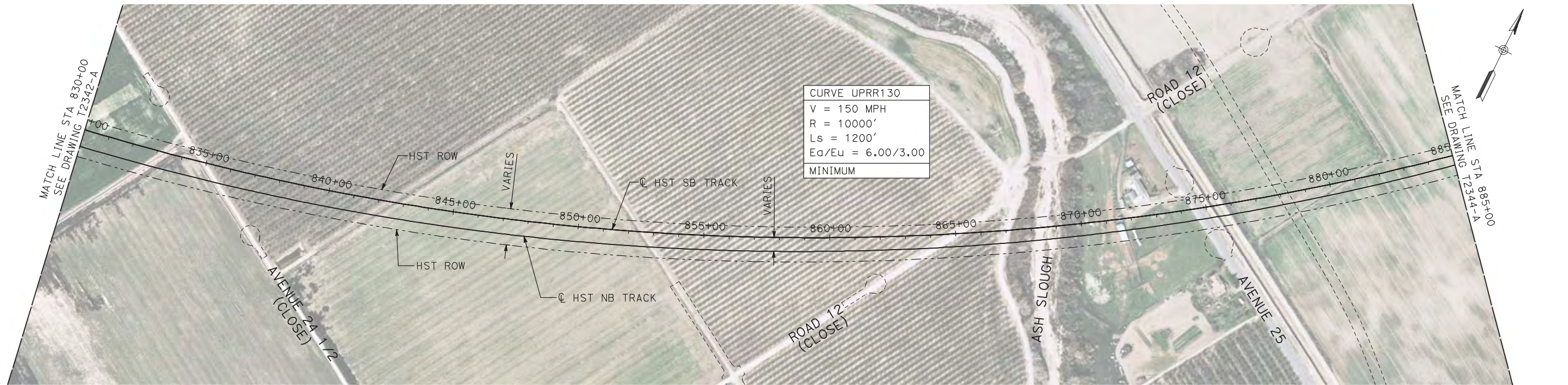
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HSR06-007

DRAWING NO.
T2342-A

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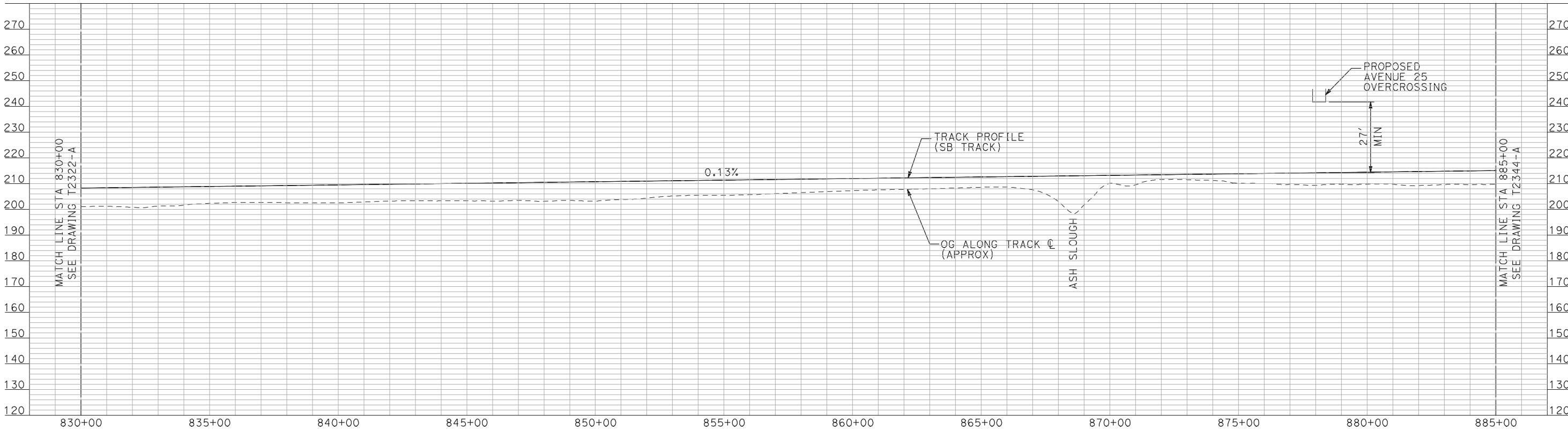
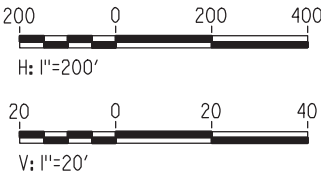
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
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NOT FOR
CONSTRUCTION

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Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

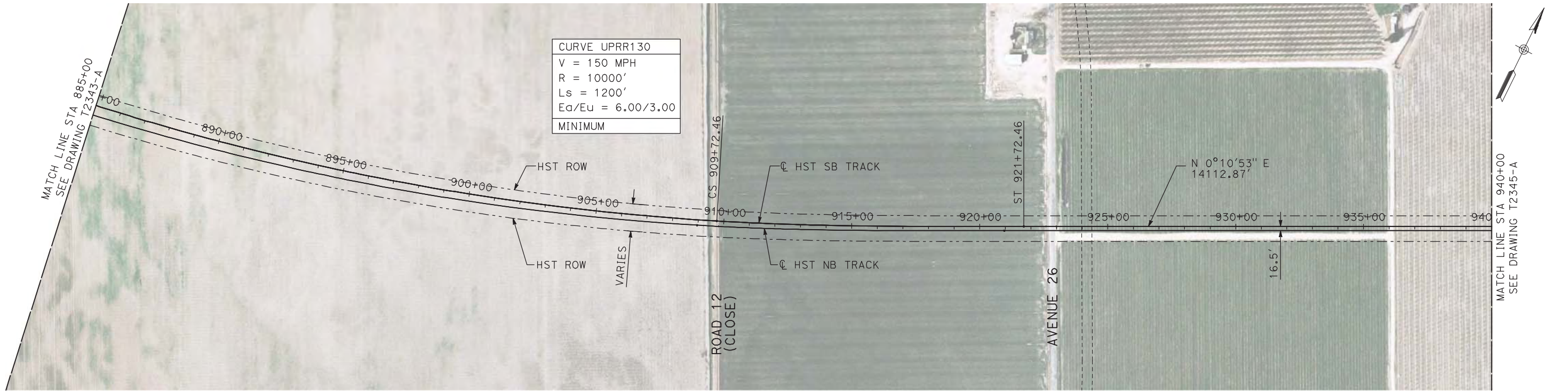
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 830+00 TO STA 885+00

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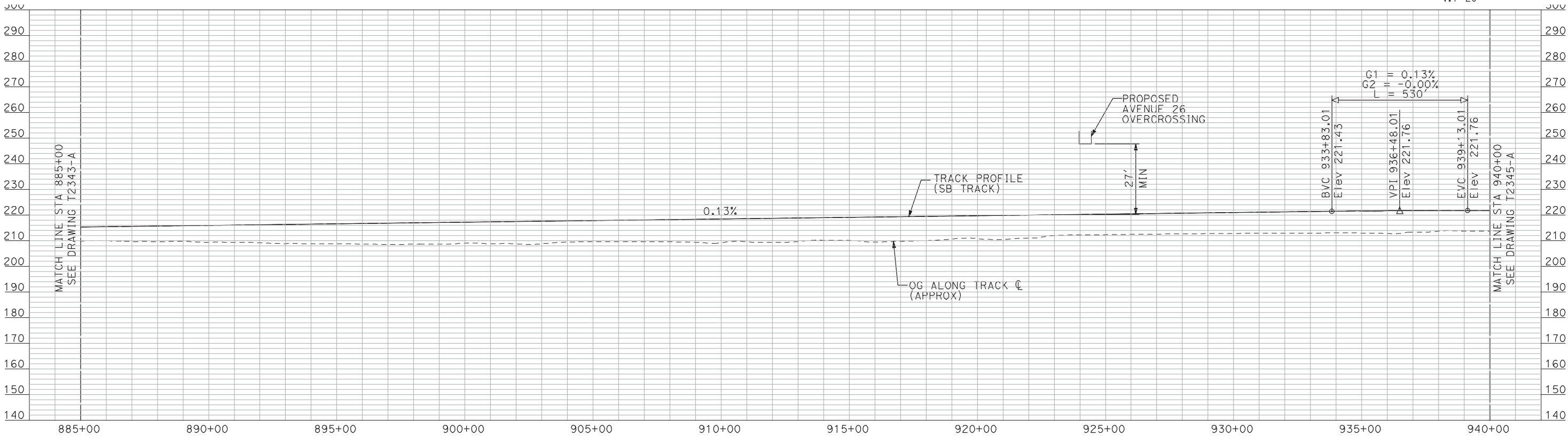
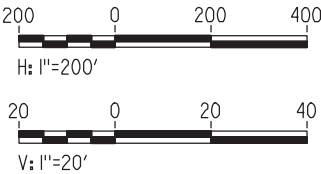
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

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CONSTRUCTION

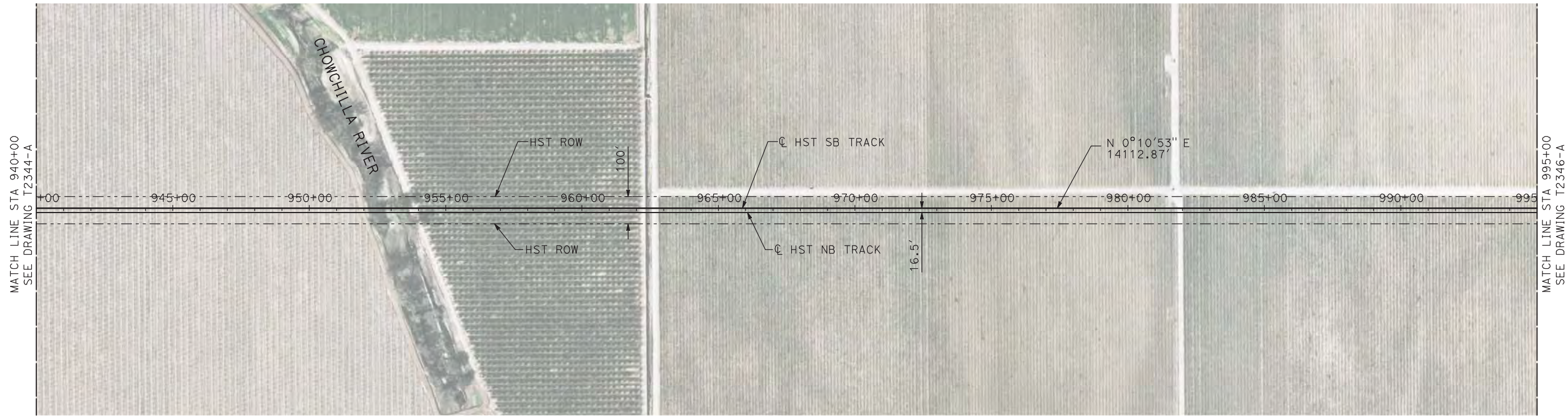


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 885+00 TO STA 940+00

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| CONTRACT NO. HSR06-007 |
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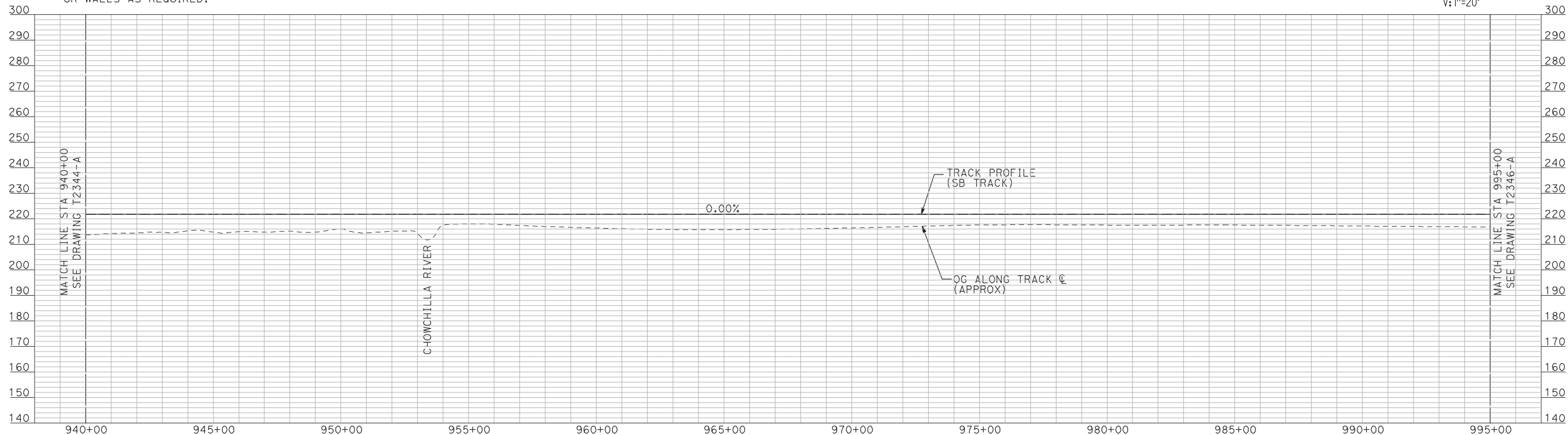
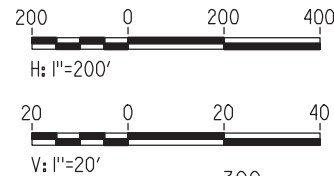
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

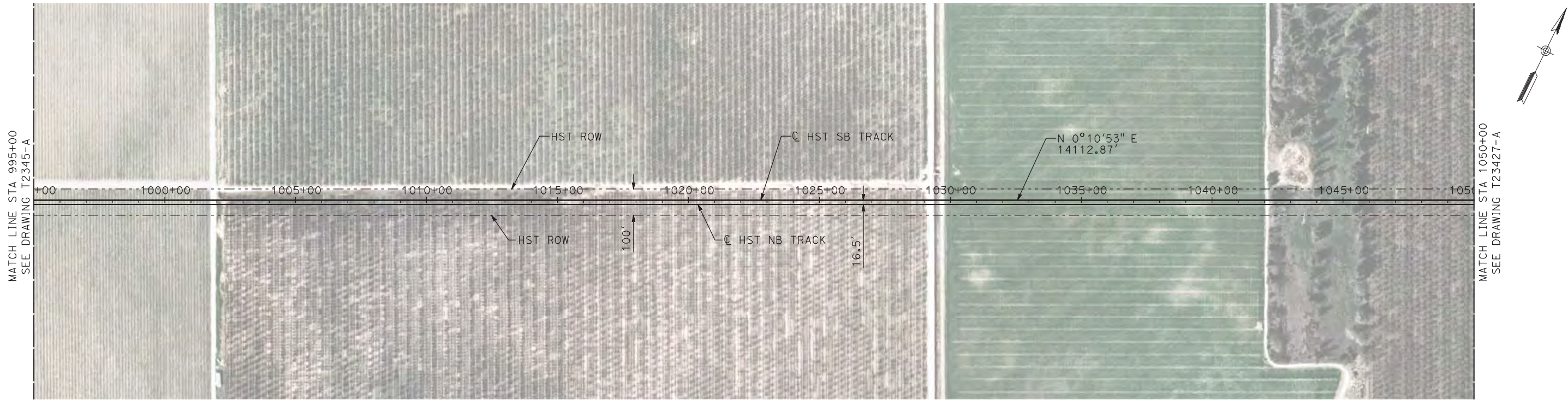


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 940+00 TO STA 995+00

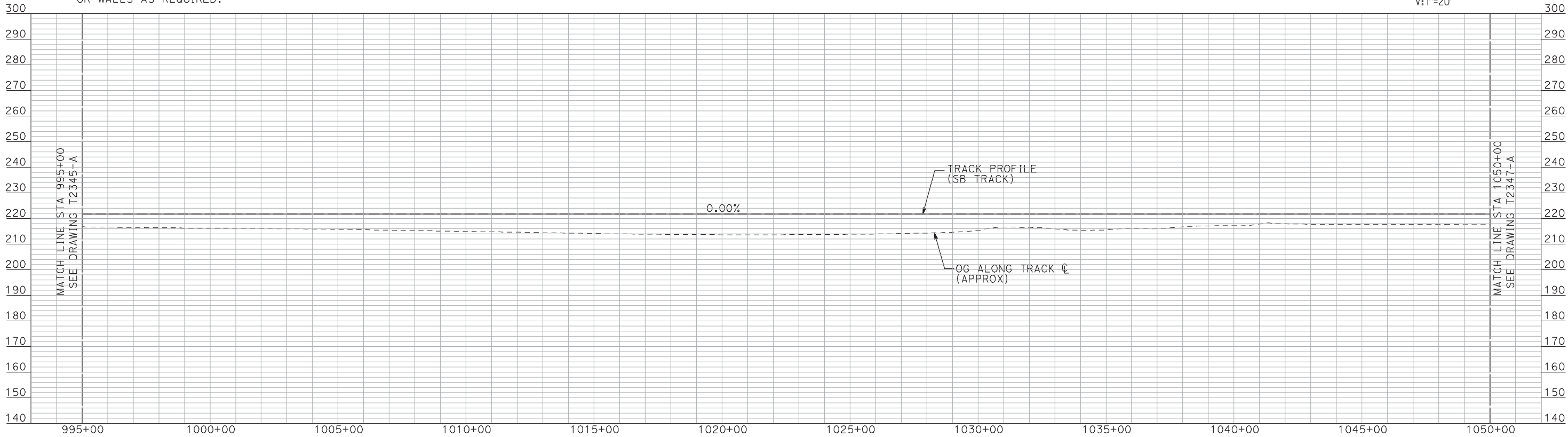
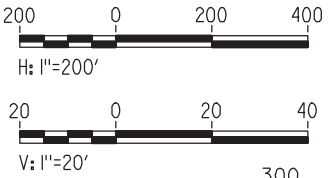
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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2345-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

**RECORD SET
15% DESIGN
SUBMITTAL**

**NOT FOR
CONSTRUCTION**

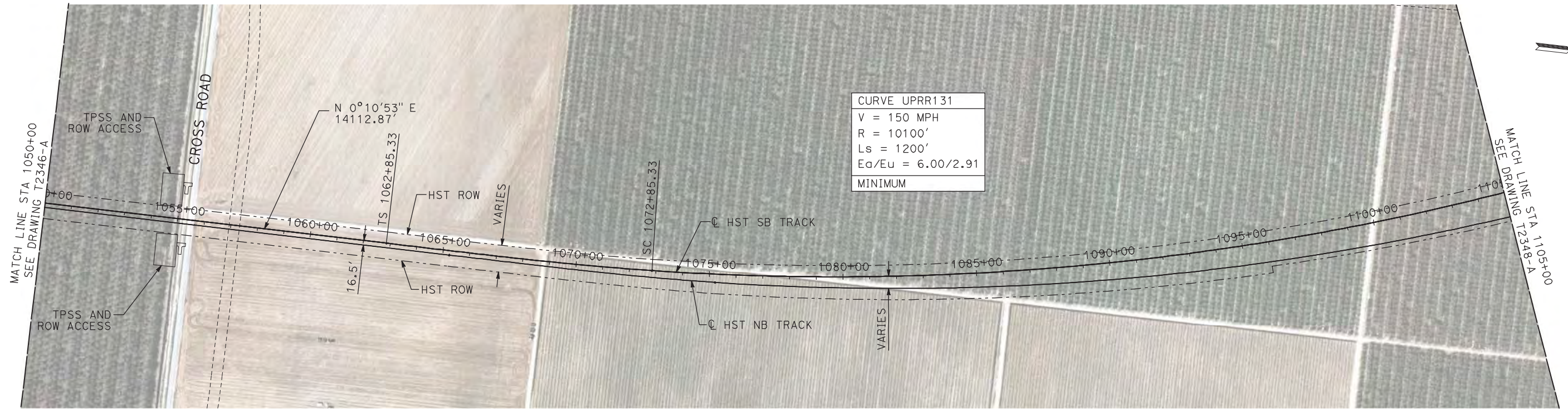


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 995+00 TO STA 1050+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2346-A |
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| SHEET NO. ### OF ### |

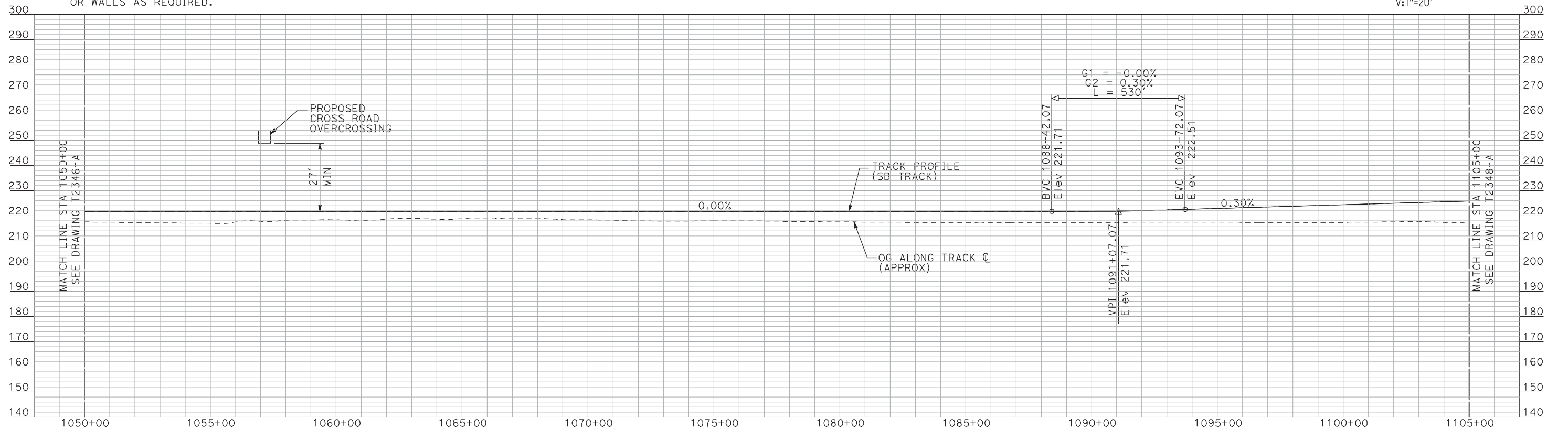
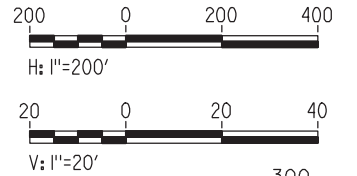
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

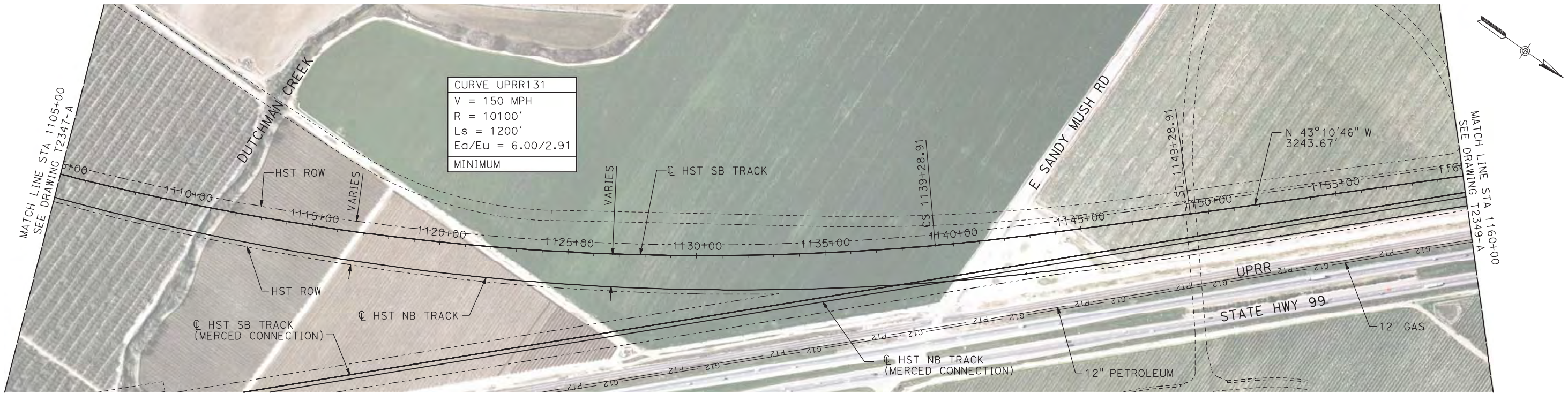
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 1050+00 TO STA 1105+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2347-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

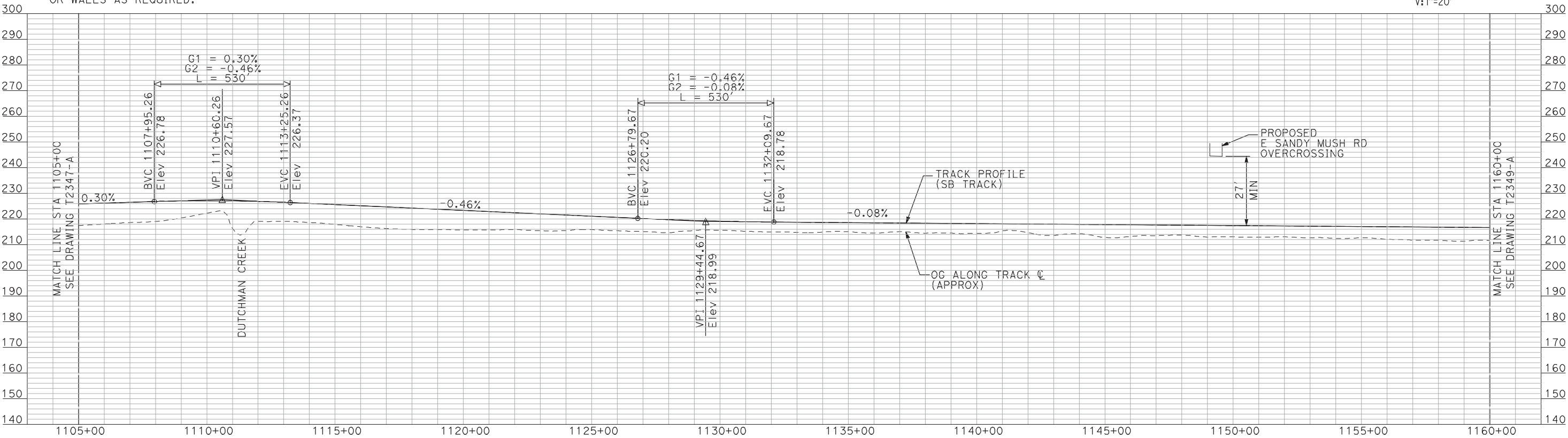
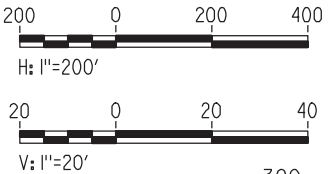
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NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



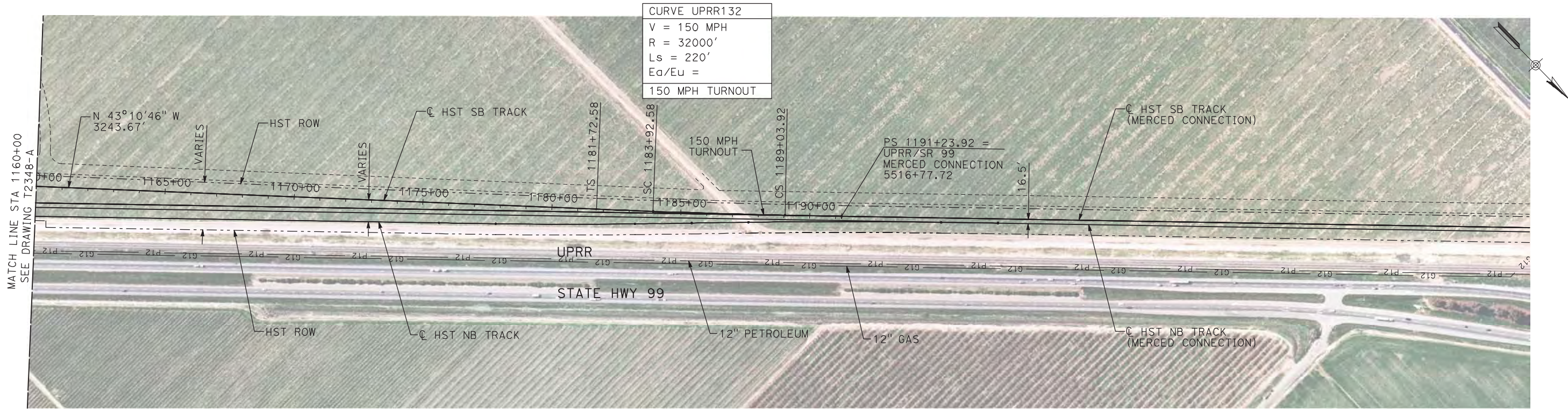
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 1105+00 TO STA 1160+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2348-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

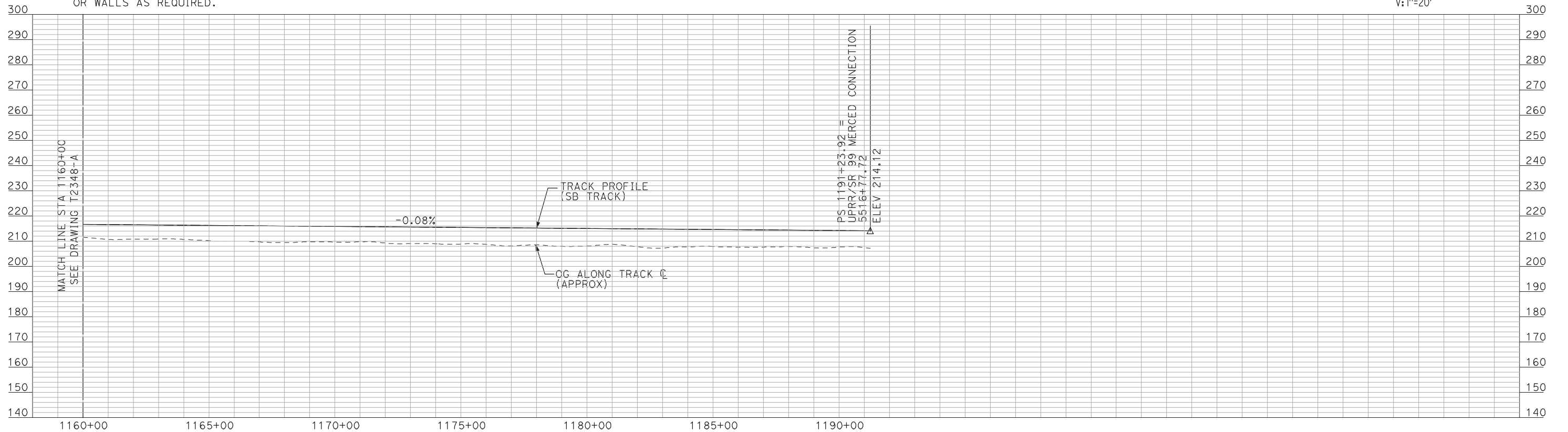
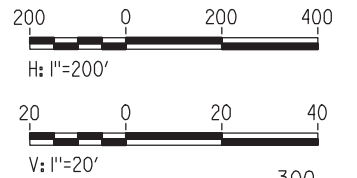
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES
BASED ON RECORD DRAWINGS AND ARE SHOWN FOR
INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING
FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS,
OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

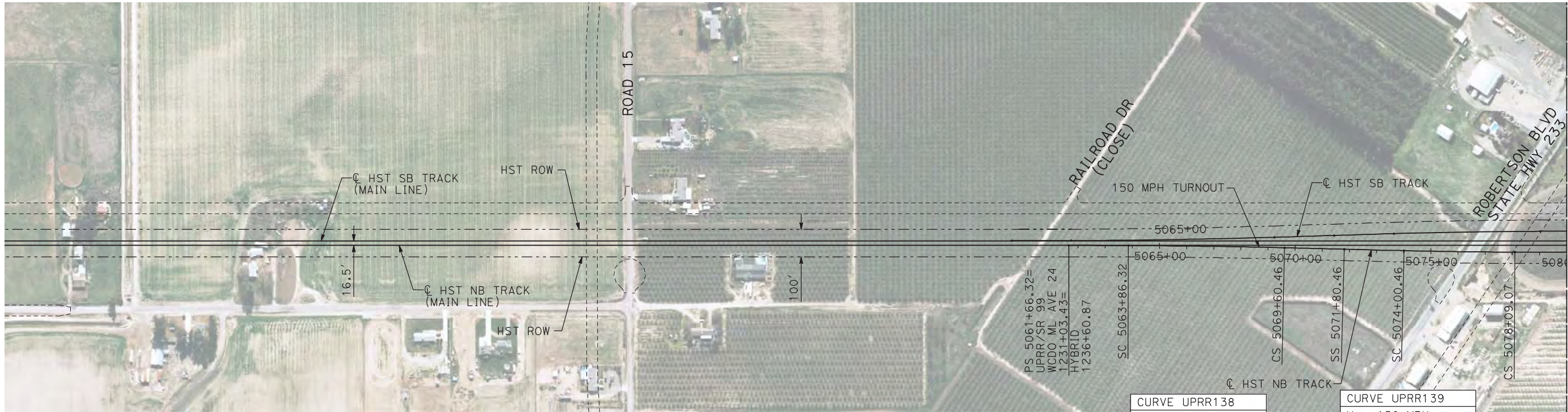


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 1160+00 TO STA 1191+23.92

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2349-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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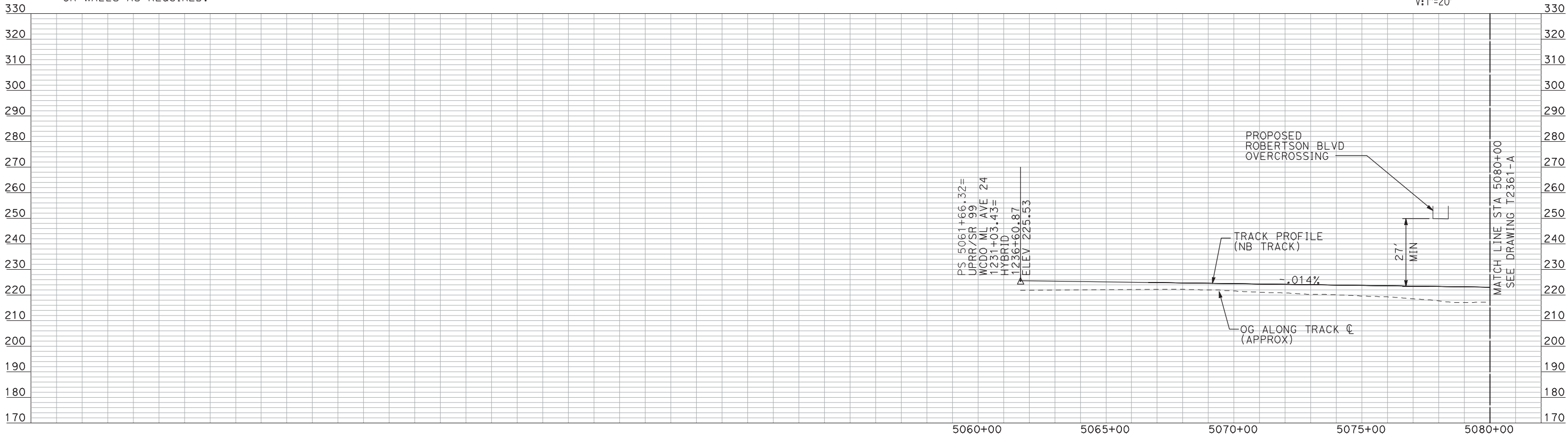
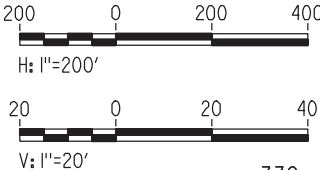
NOTES:

- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN

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|-----------------|
| CURVE UPRR138 |
| V = 150 MPH |
| R = 32000' |
| Ls = 220' |
| Ed/Eu = |
| 150 MPH TURNOUT |

| |
|-------------------|
| CURVE UPRR139 |
| V = 150 MPH |
| R = 24000' |
| Ls = 220' |
| Ed/Eu = 1.25/2.50 |
| 150 MPH TURNOUT |



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

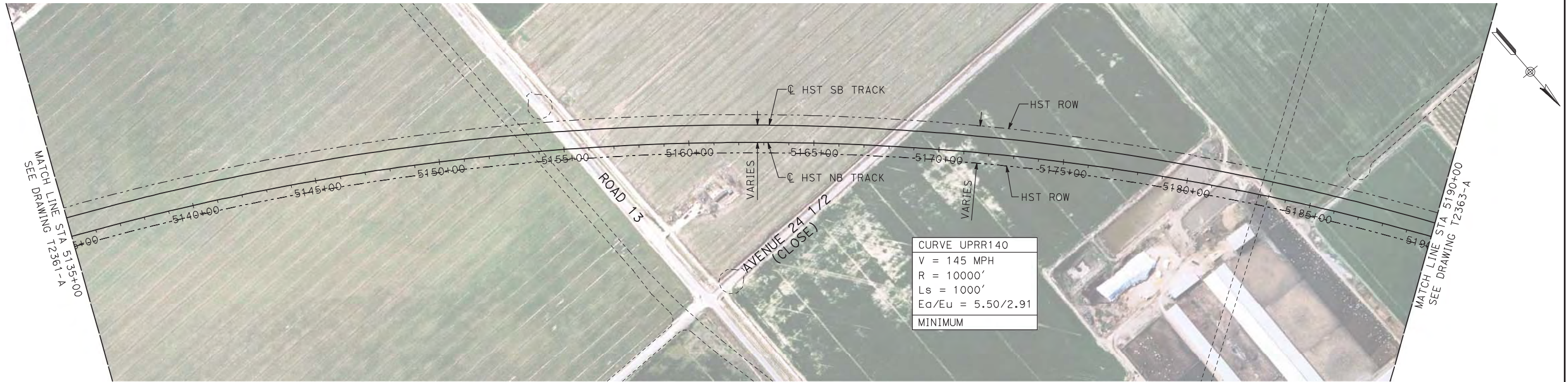


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5061+66.32 TO STA 5080+00

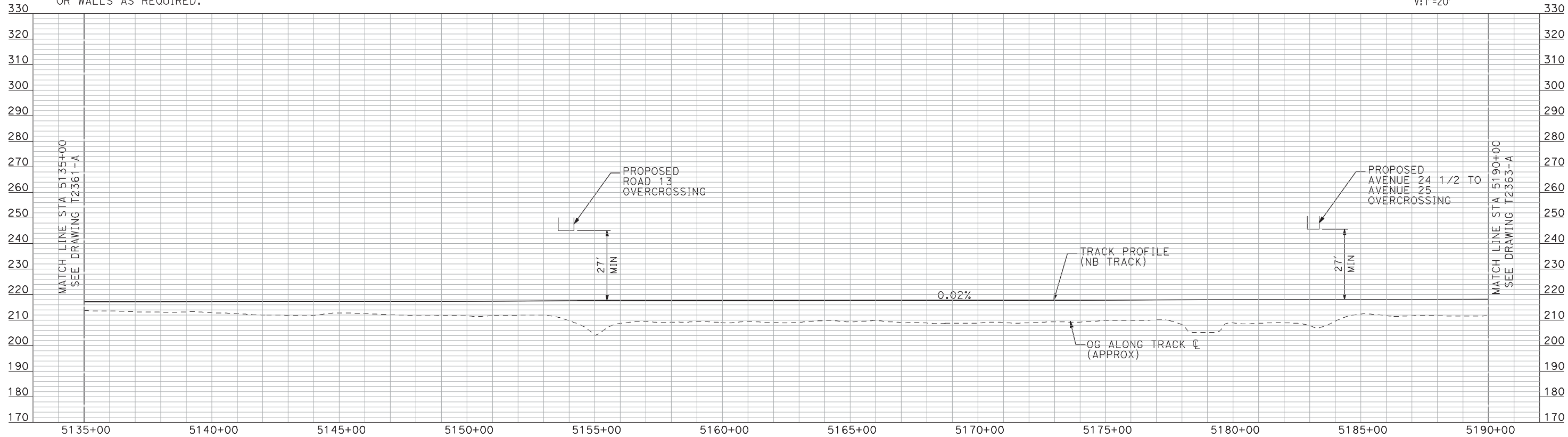
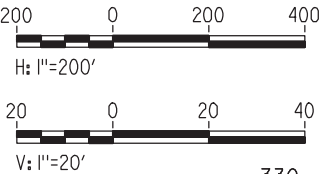
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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2360-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2362-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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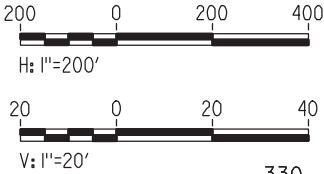


| |
|-------------------|
| CURVE UPRR140 |
| V = 145 MPH |
| R = 10000' |
| Ls = 1000' |
| Ea/Eu = 5.50/2.91 |
| MINIMUM |

NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

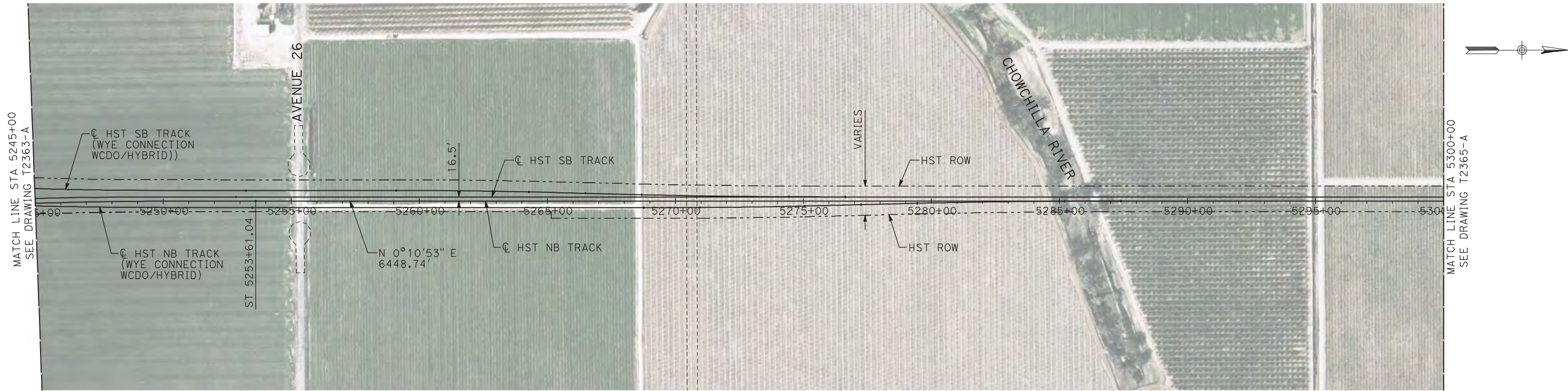
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2363-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

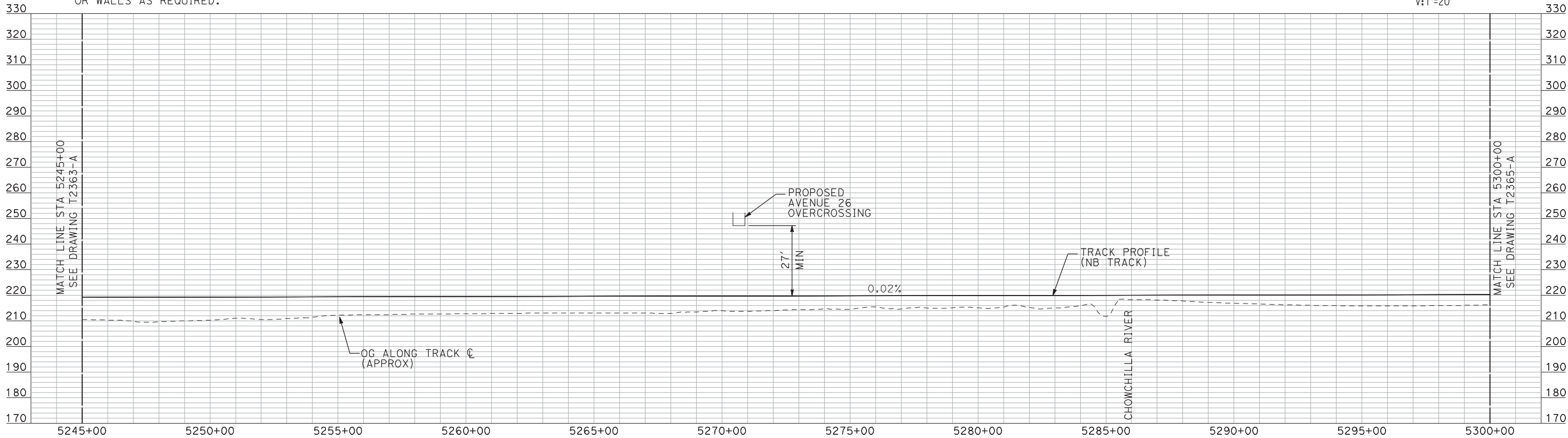
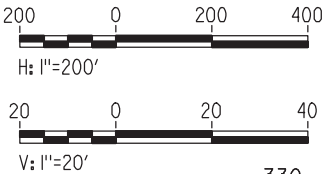
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

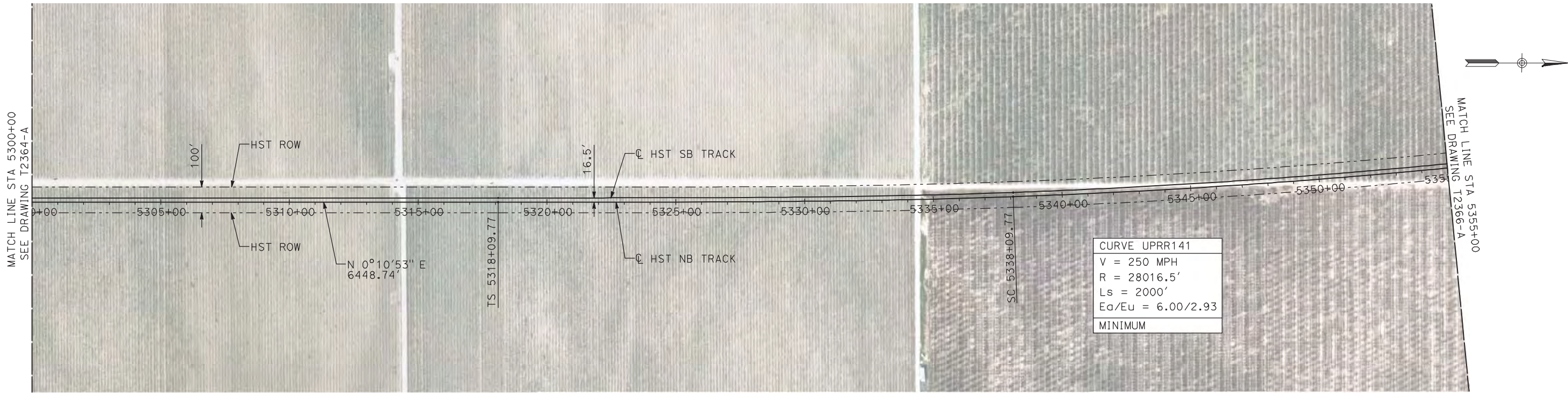


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCD0/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

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| CONTRACT NO. HSR06-007 |
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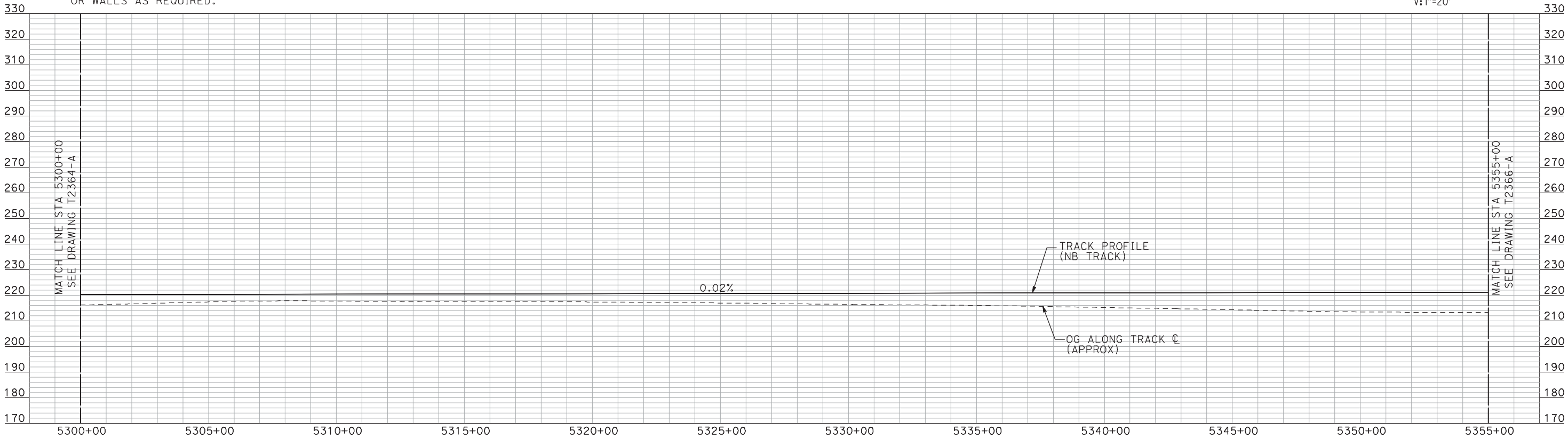
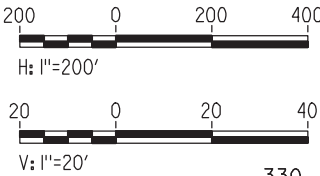
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

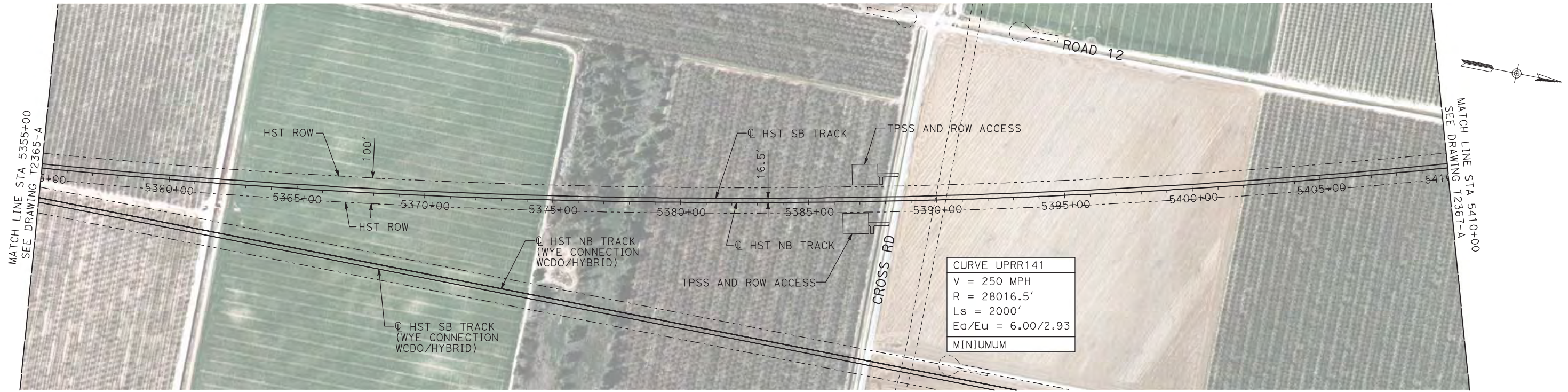


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

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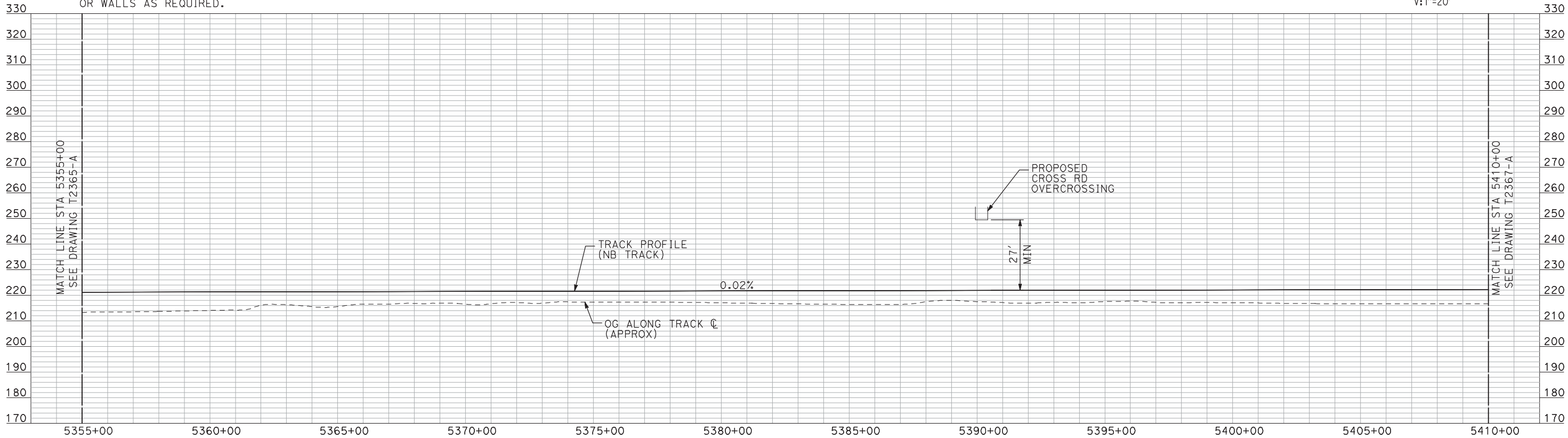
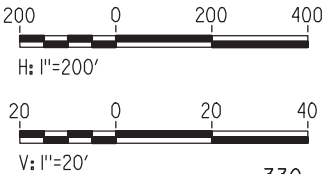
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2366-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

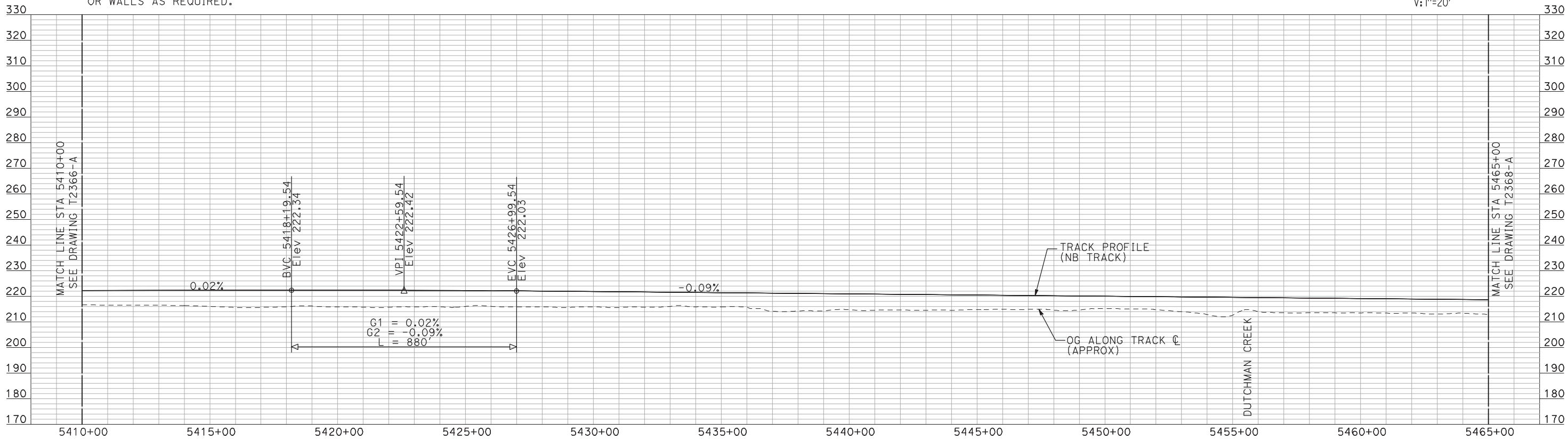
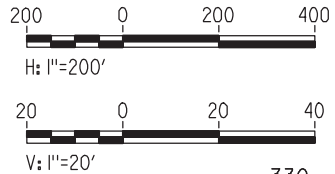
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

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CONSTRUCTION

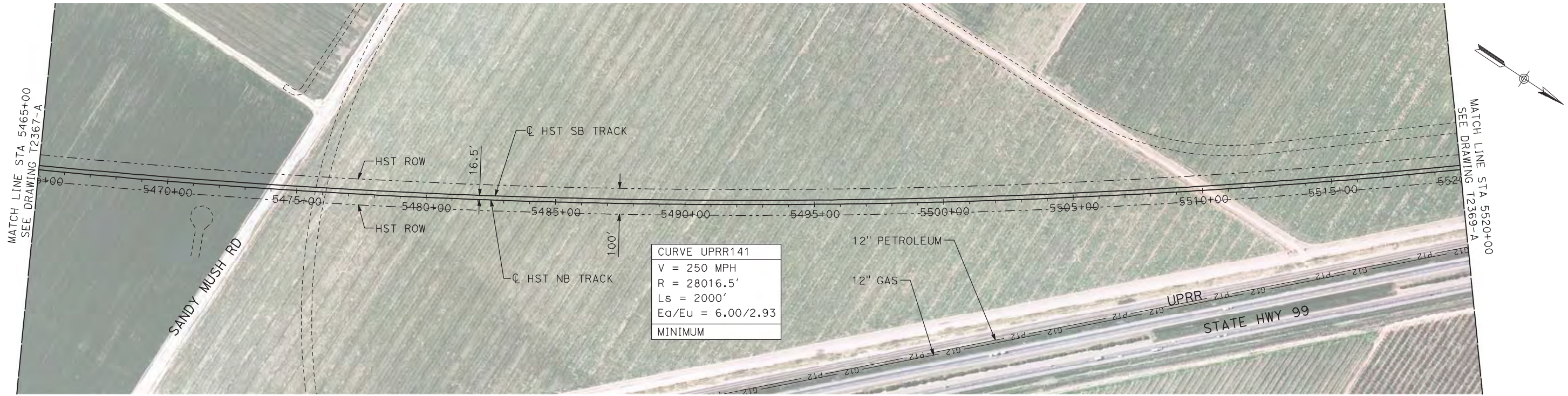


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2367-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

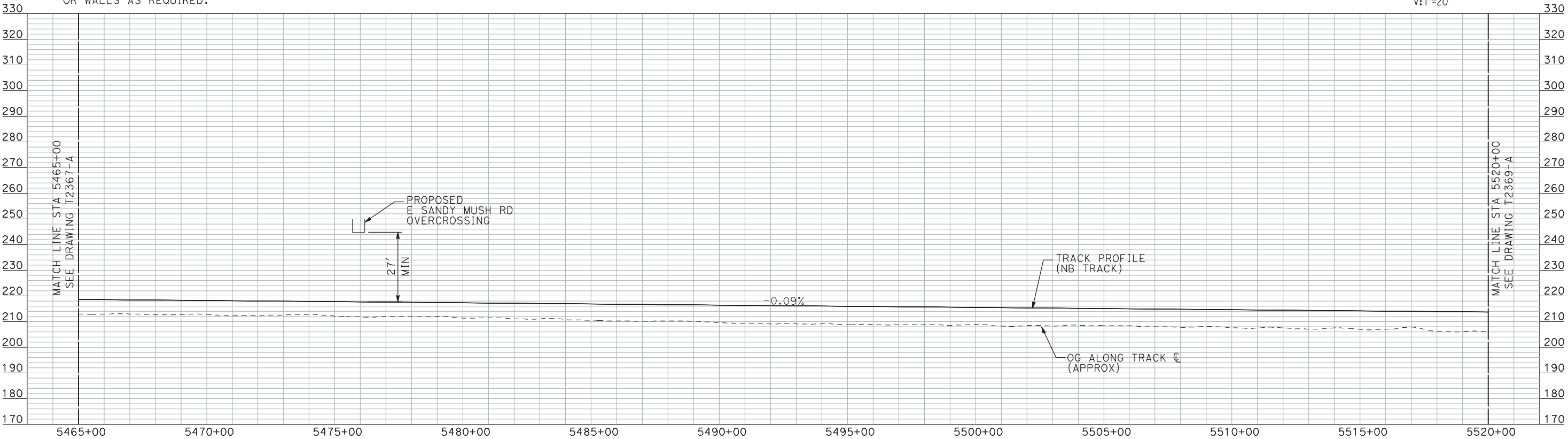
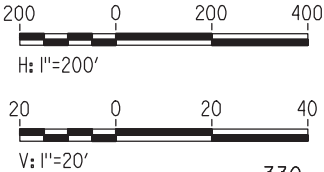
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

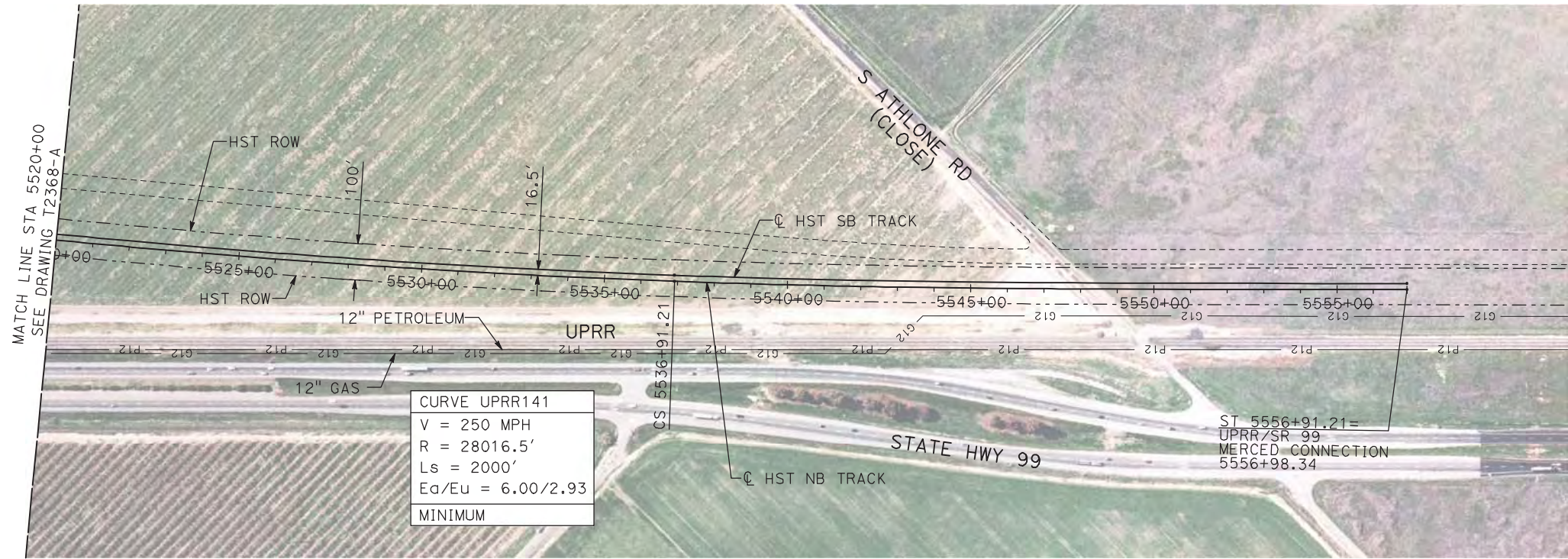
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2368-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

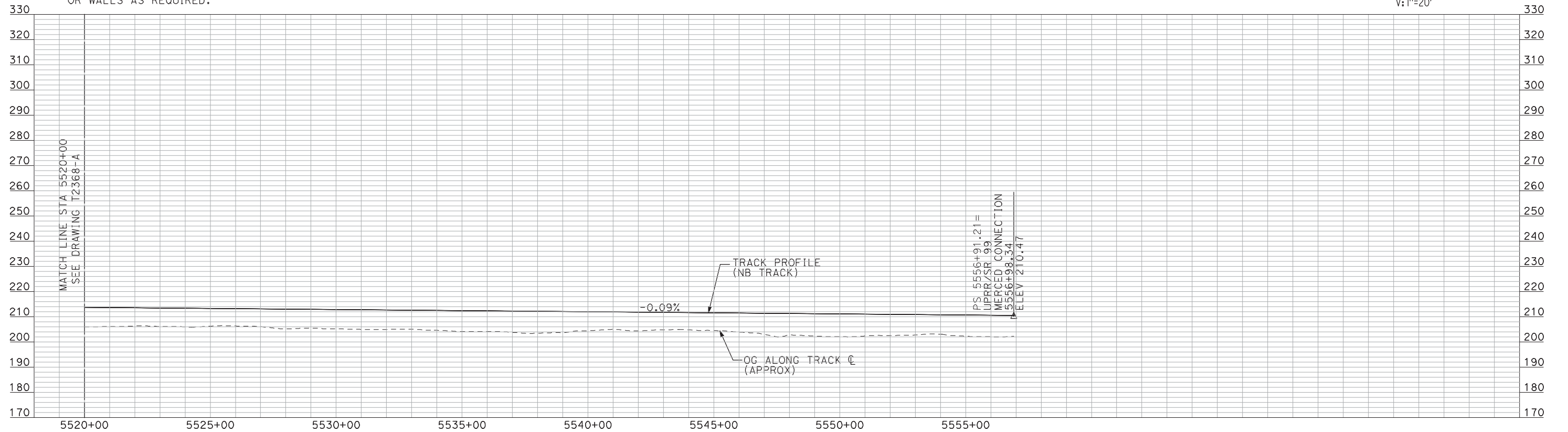
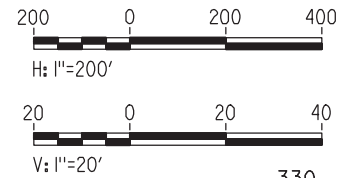
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

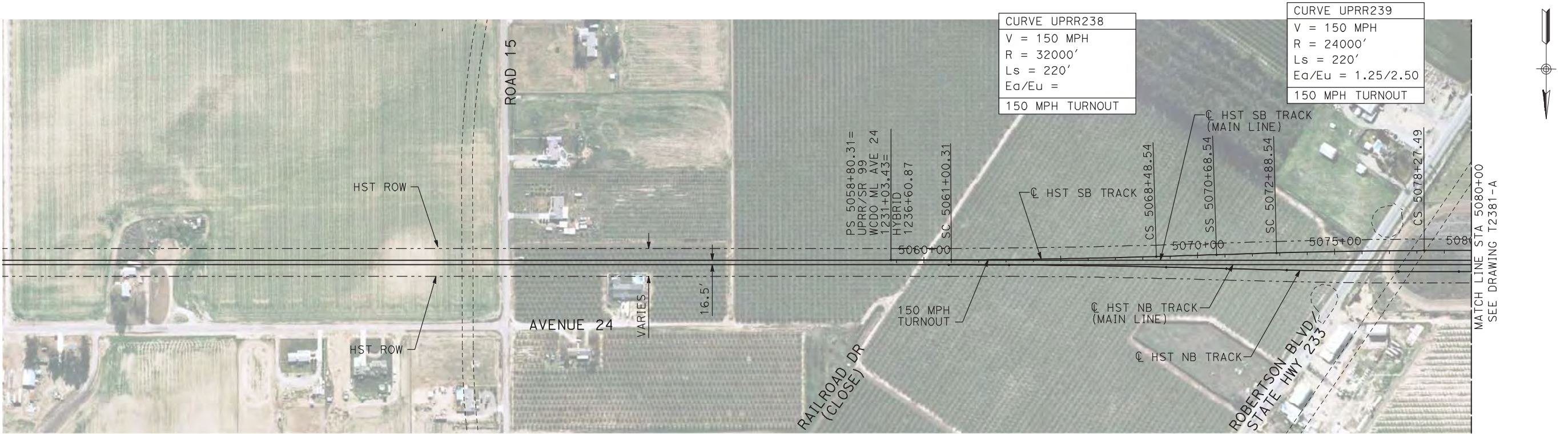
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCO/HYBRID - NB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+91.21

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2369-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

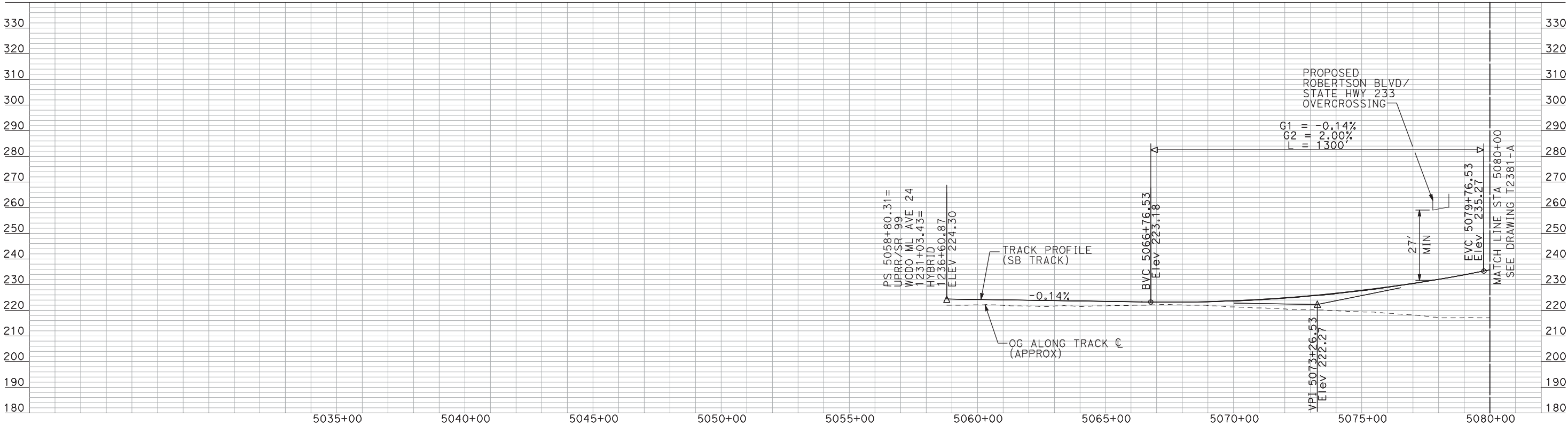
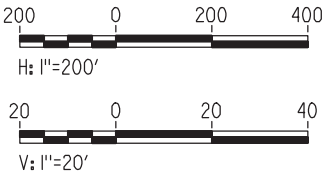
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5058+80.31 TO STA 5080+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2380-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

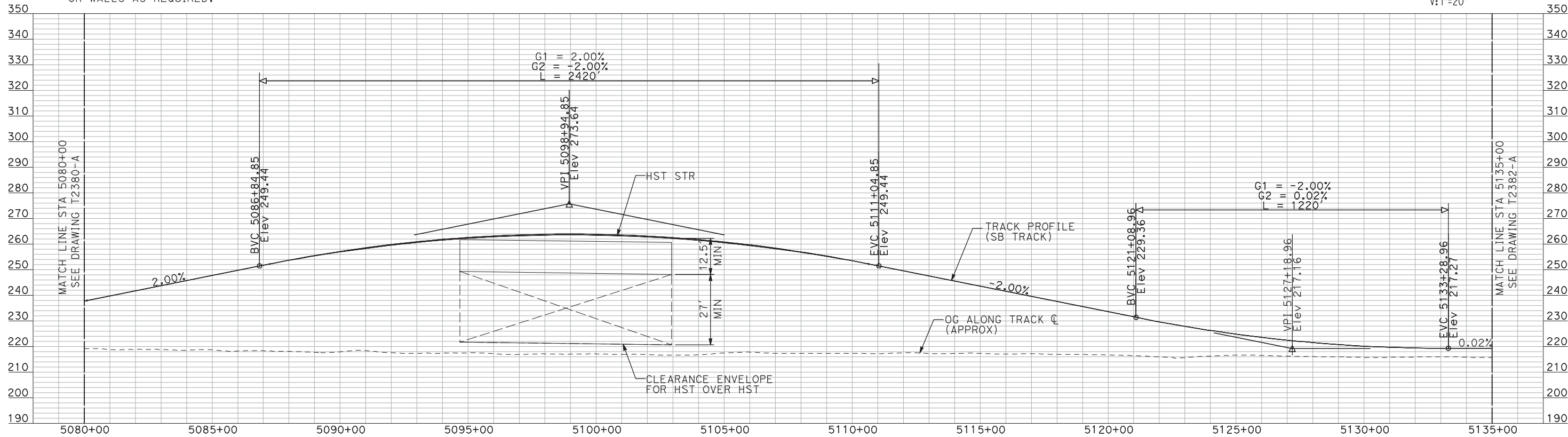
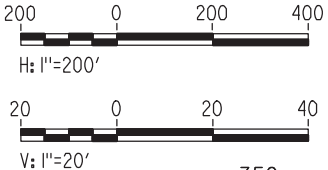
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

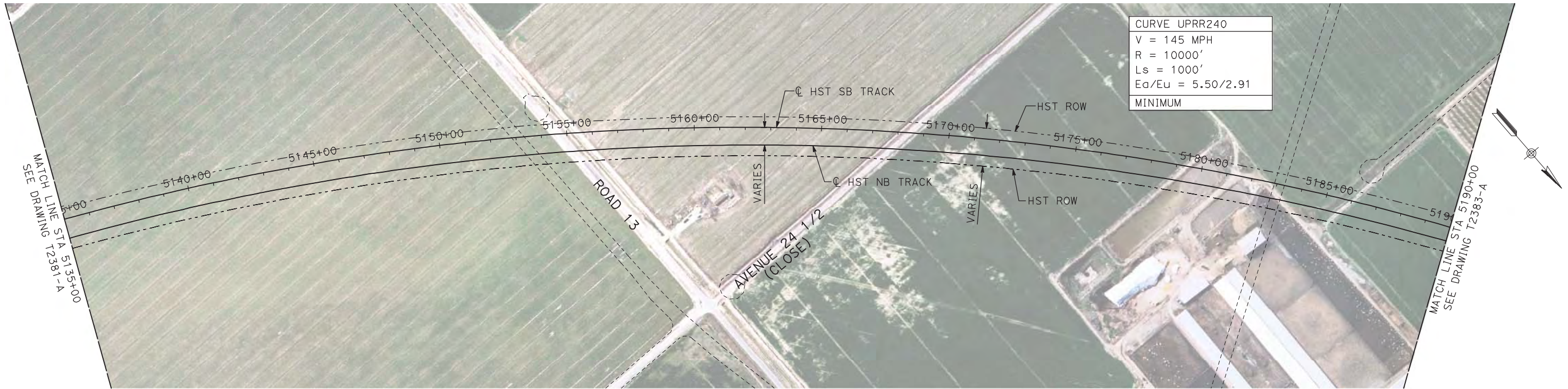


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5080+00 TO STA 5135+00

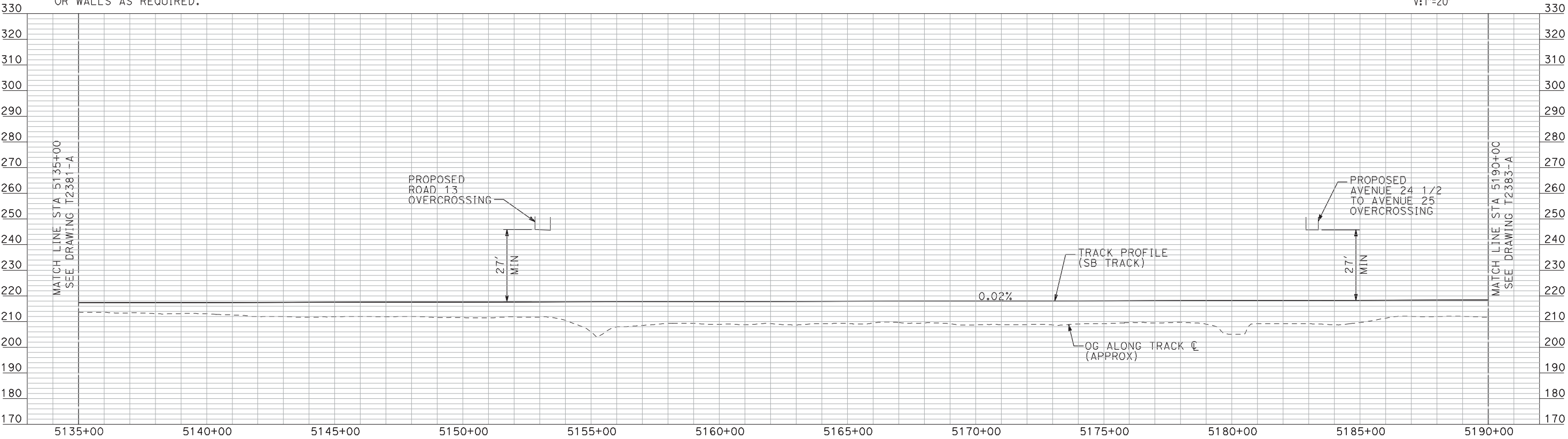
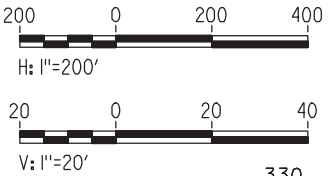
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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**

UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5135+00 TO STA 5190+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2382-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

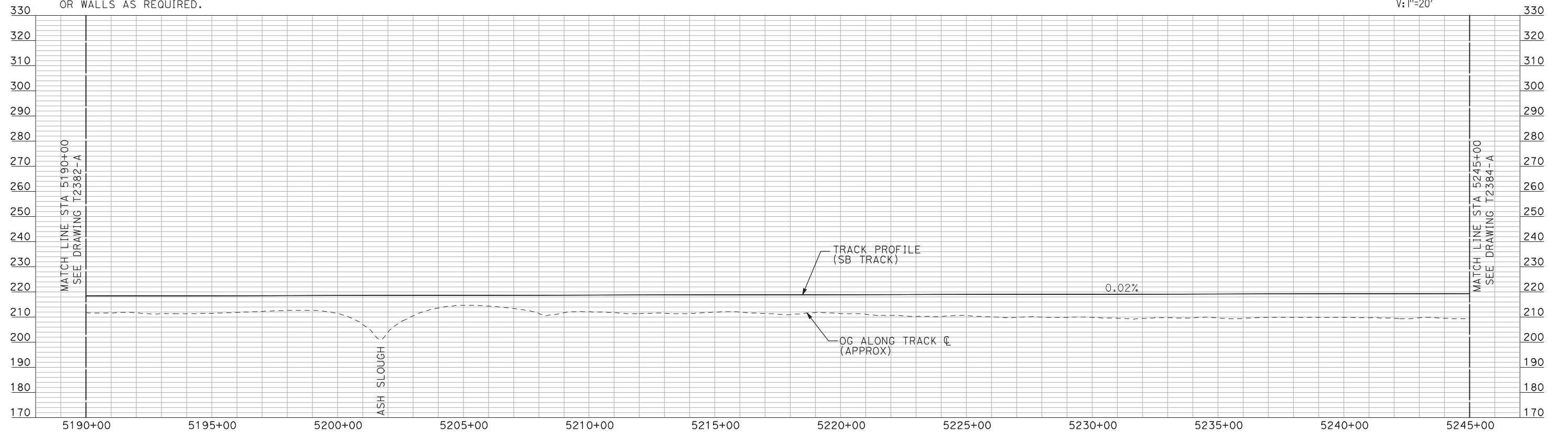
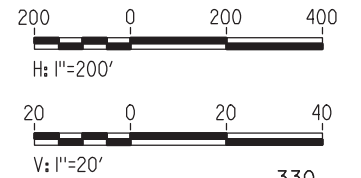
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

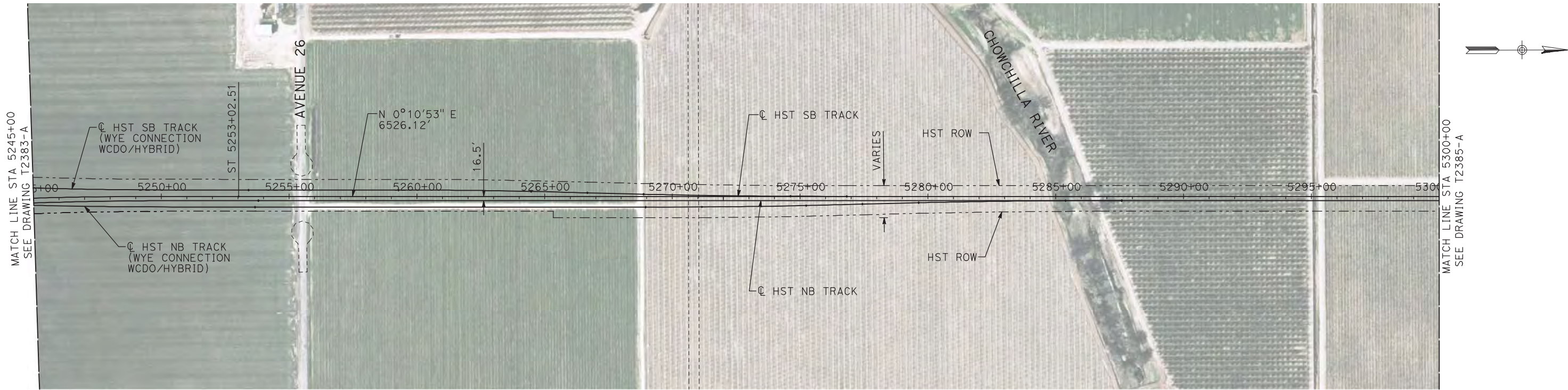
NOT FOR
CONSTRUCTION



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5190+00 TO STA 5245+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2383-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

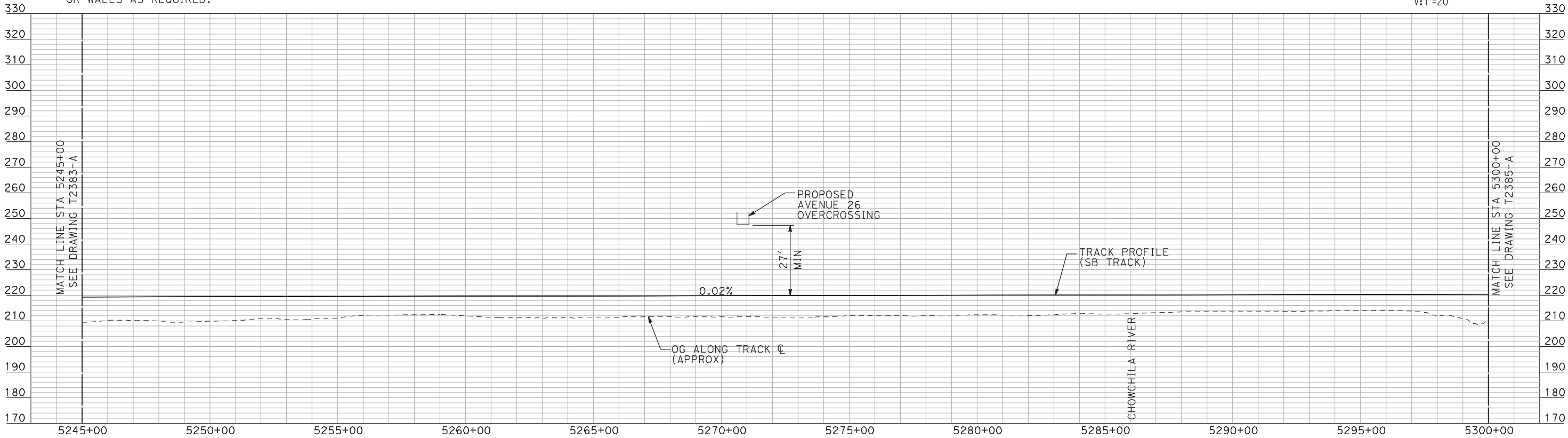
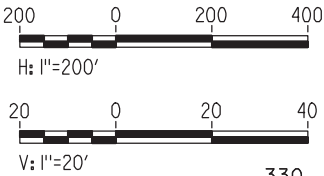
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

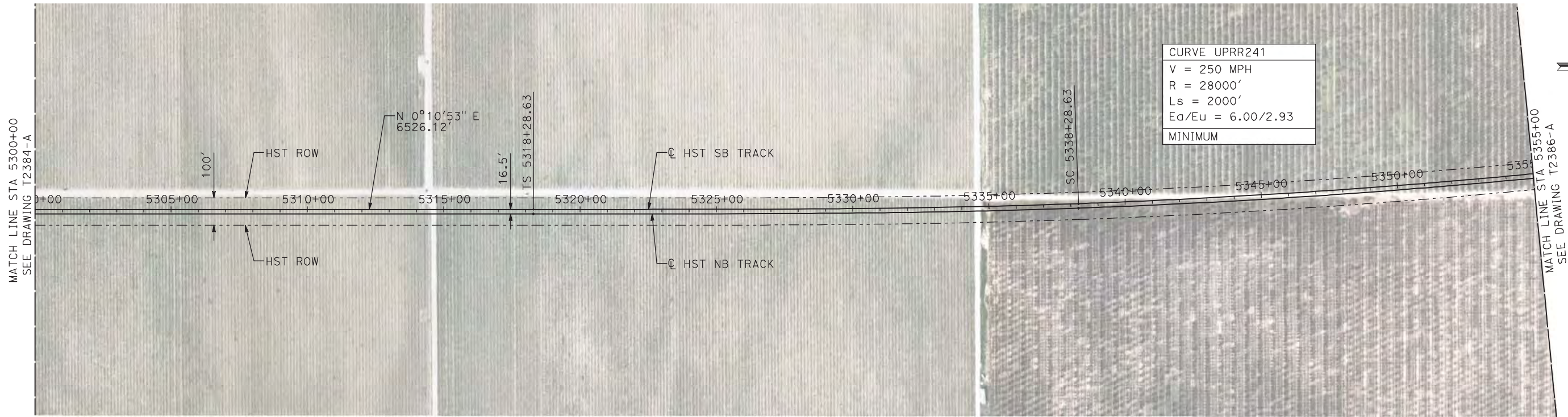
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5245+00 TO STA 5300+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2384-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

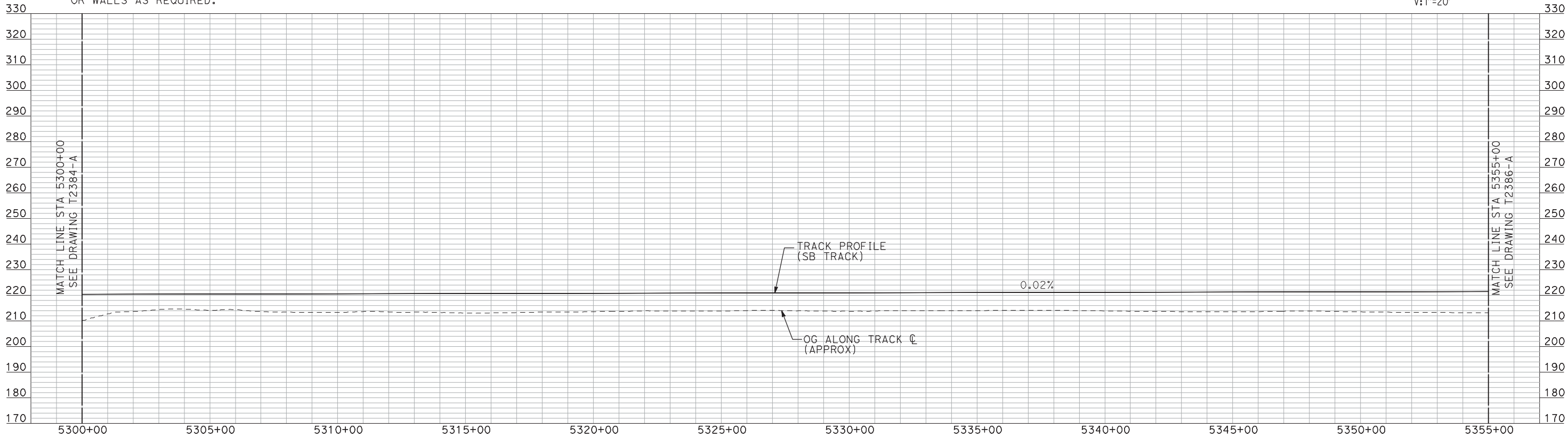
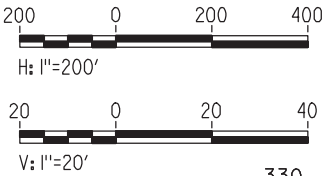
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5300+00 TO STA 5355+00

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| DRAWING NO. T2385-A |
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| SHEET NO. ### OF ### |

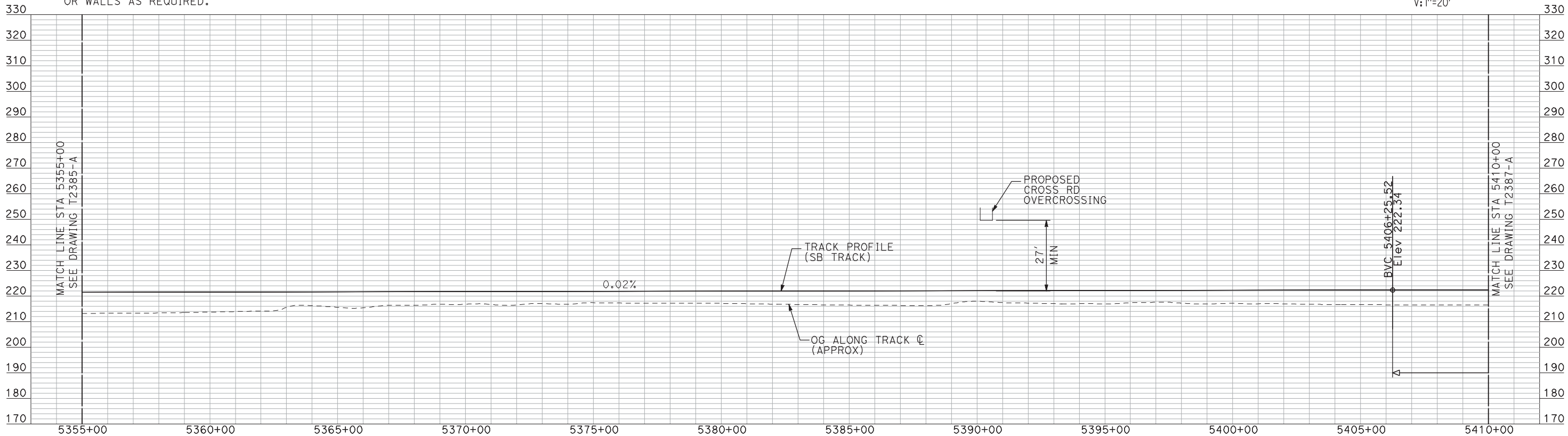
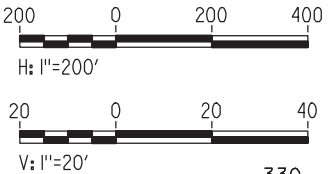
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

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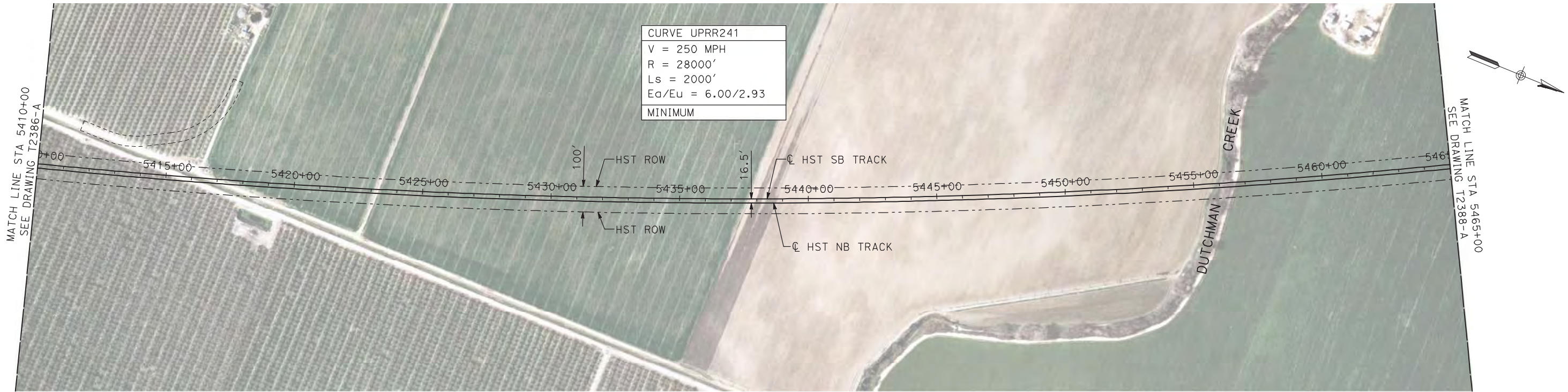


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5355+00 TO STA 5410+00

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| DRAWING NO. T2386-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

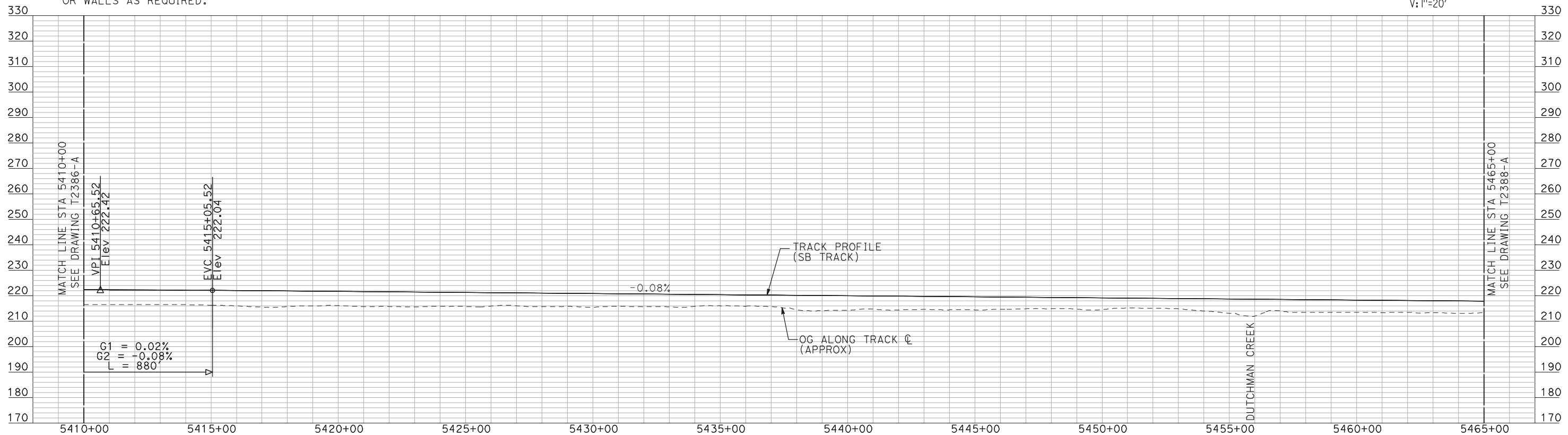
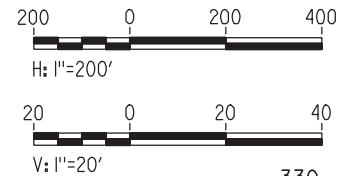
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
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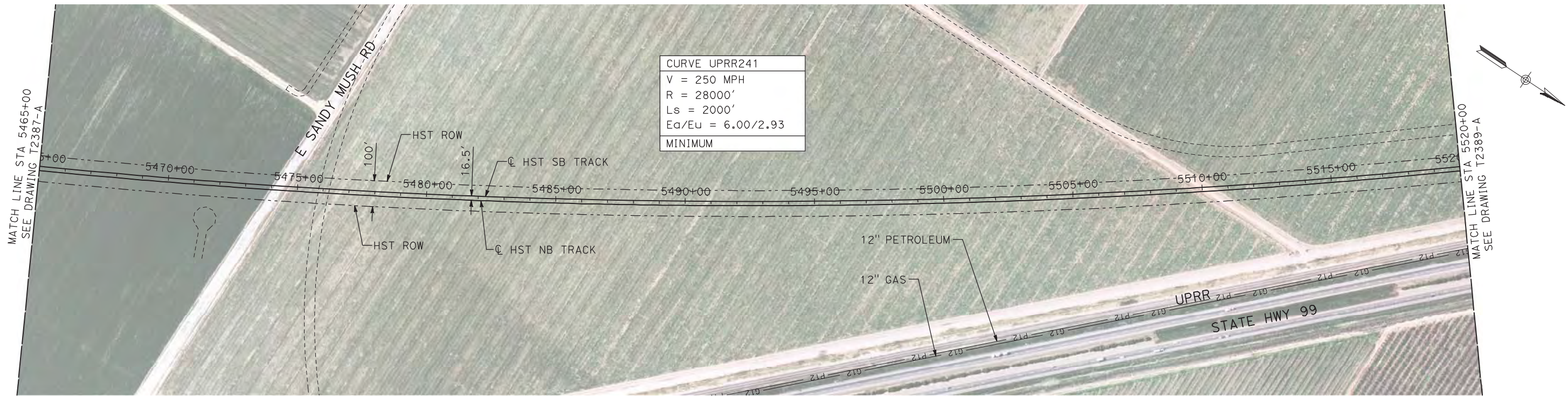
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5410+00 TO STA 5465+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2387-A |
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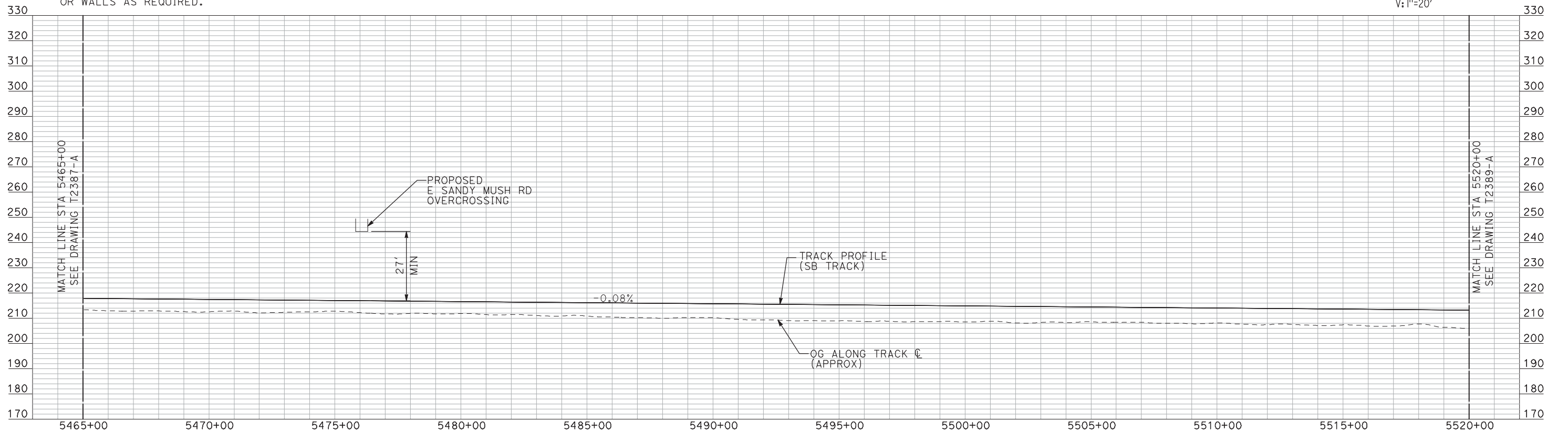
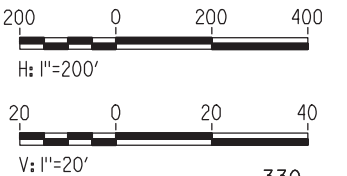
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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CONSTRUCTION

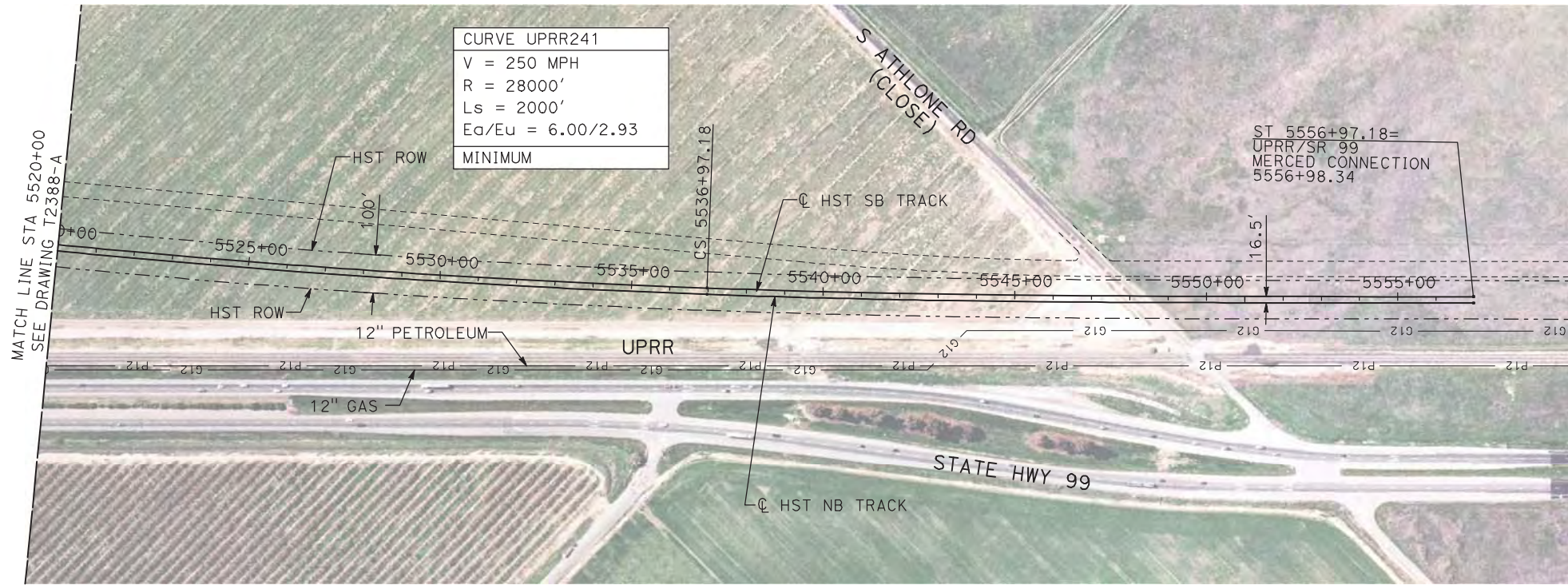


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5465+00 TO STA 5520+00

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| SHEET NO. ### OF ### |

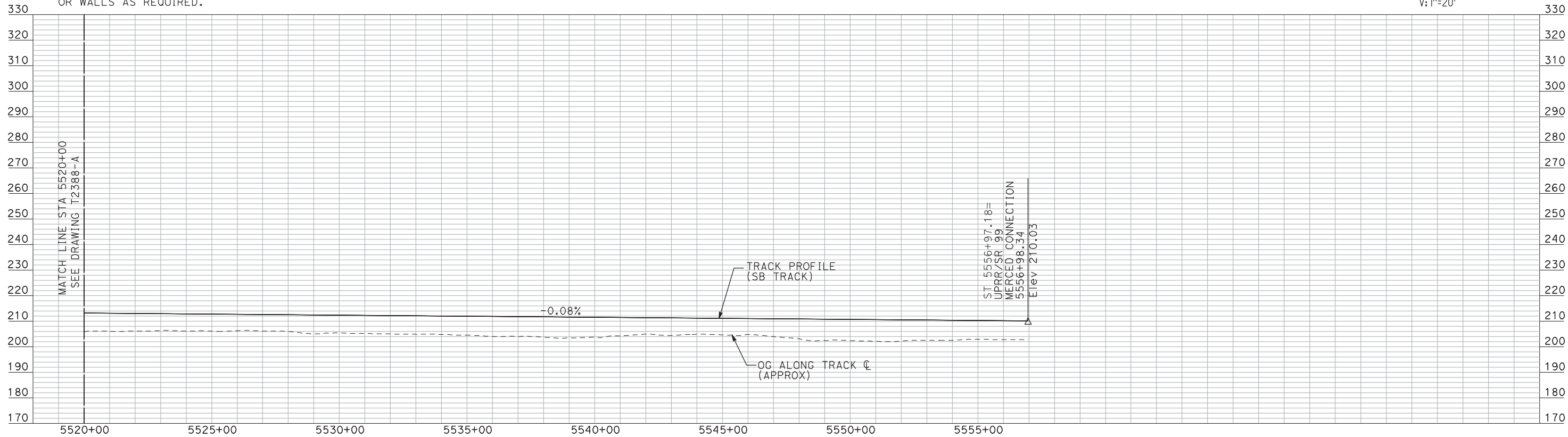
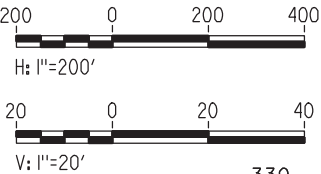
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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|---------------------------|
| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

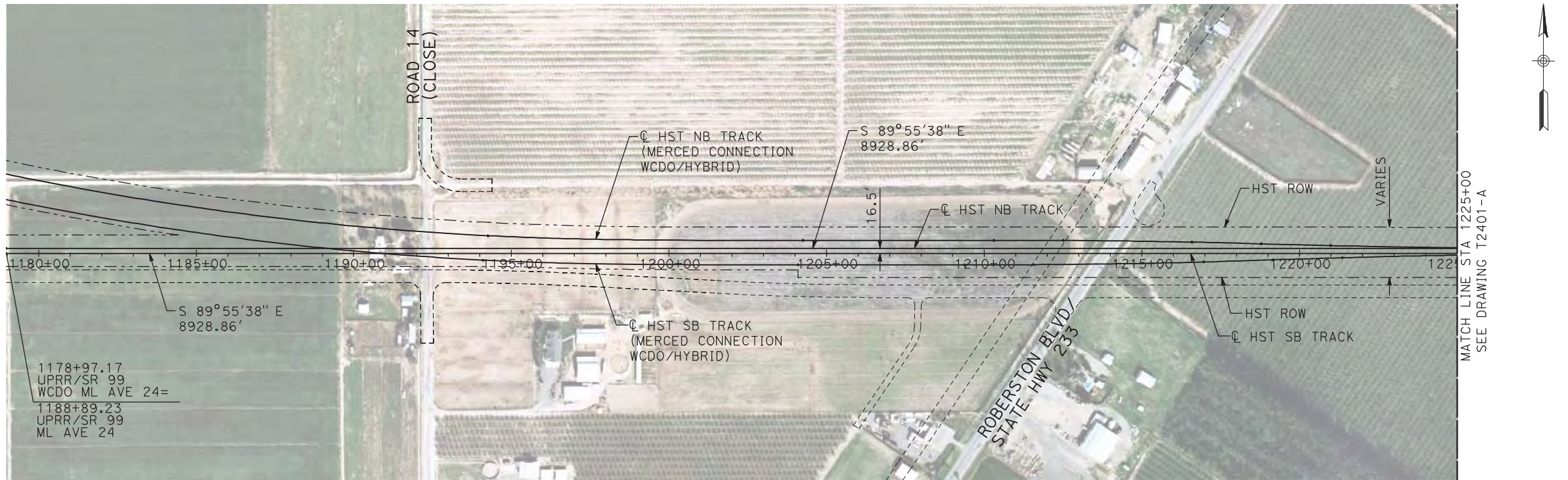


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID - SB MERCED CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 5520+00 TO STA 5556+97.18

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2389-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

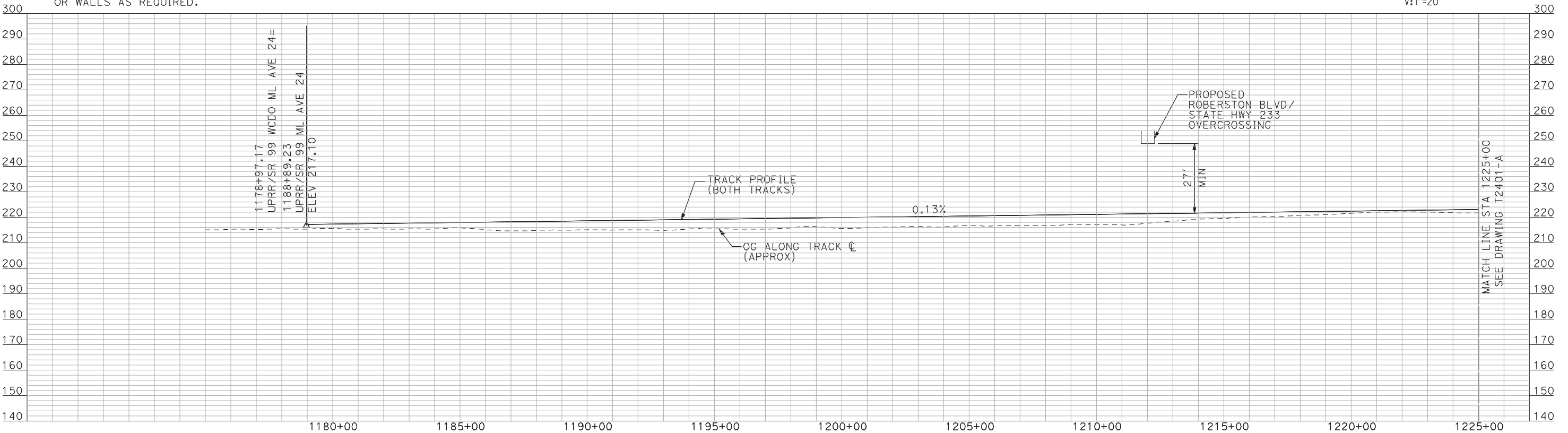
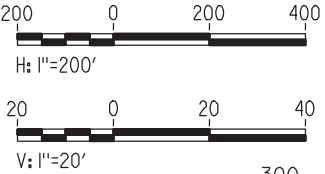
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
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NOT FOR
CONSTRUCTION

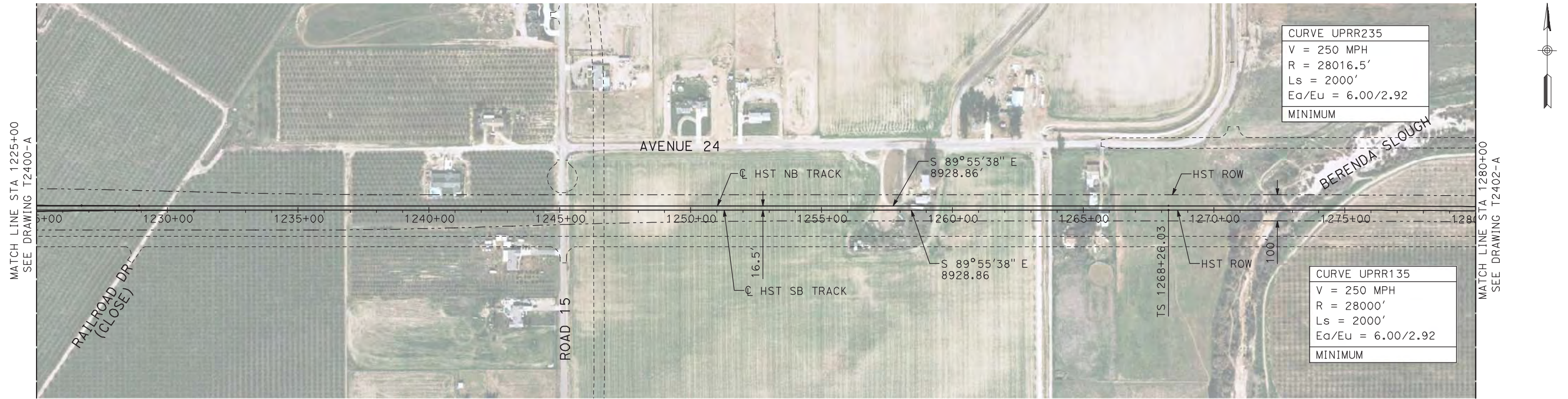


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1178+97.17 TO STA 1225+00

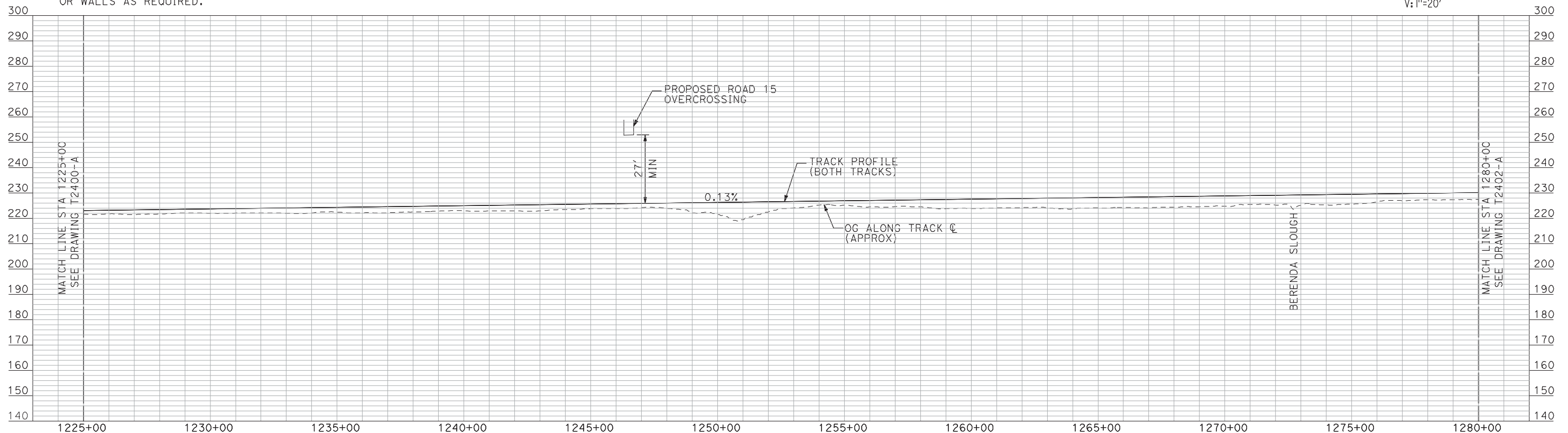
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.



"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
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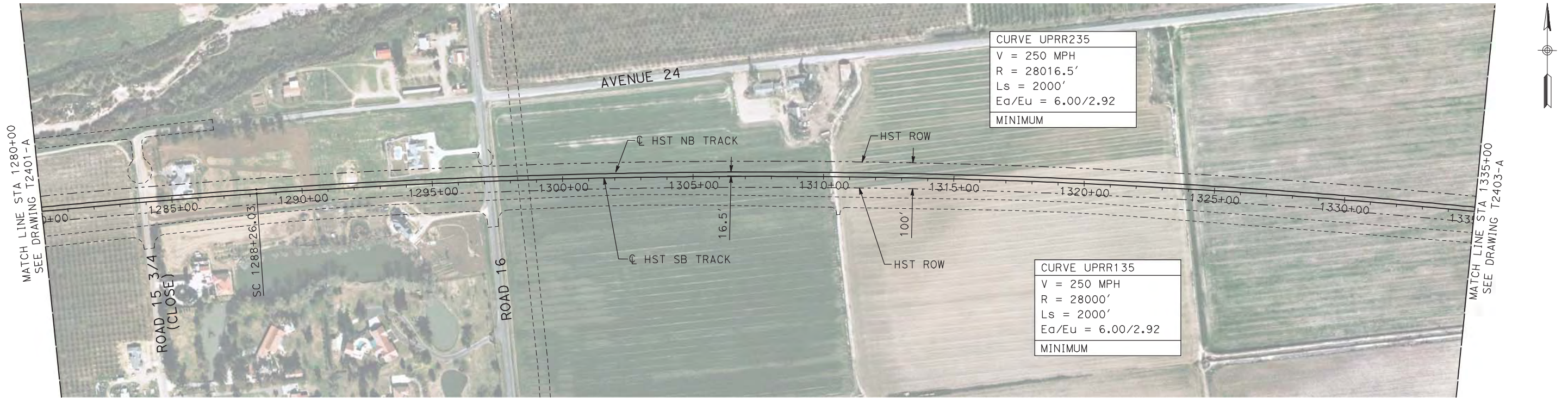
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1225+00 TO STA 1280+00

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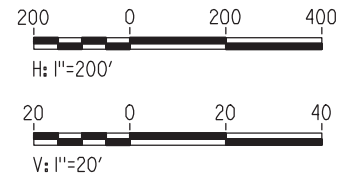
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

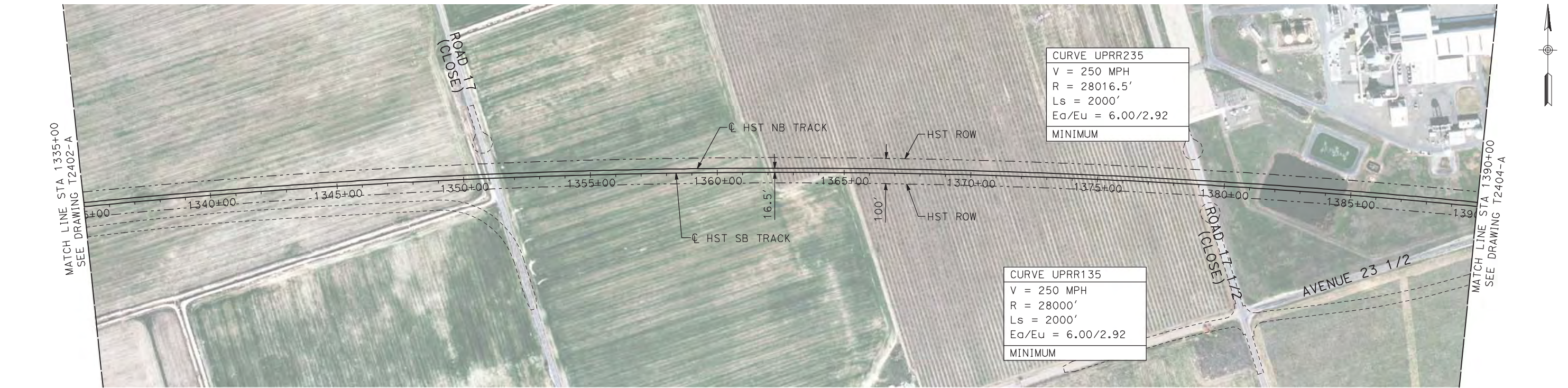


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1280+00 TO STA 1335+00

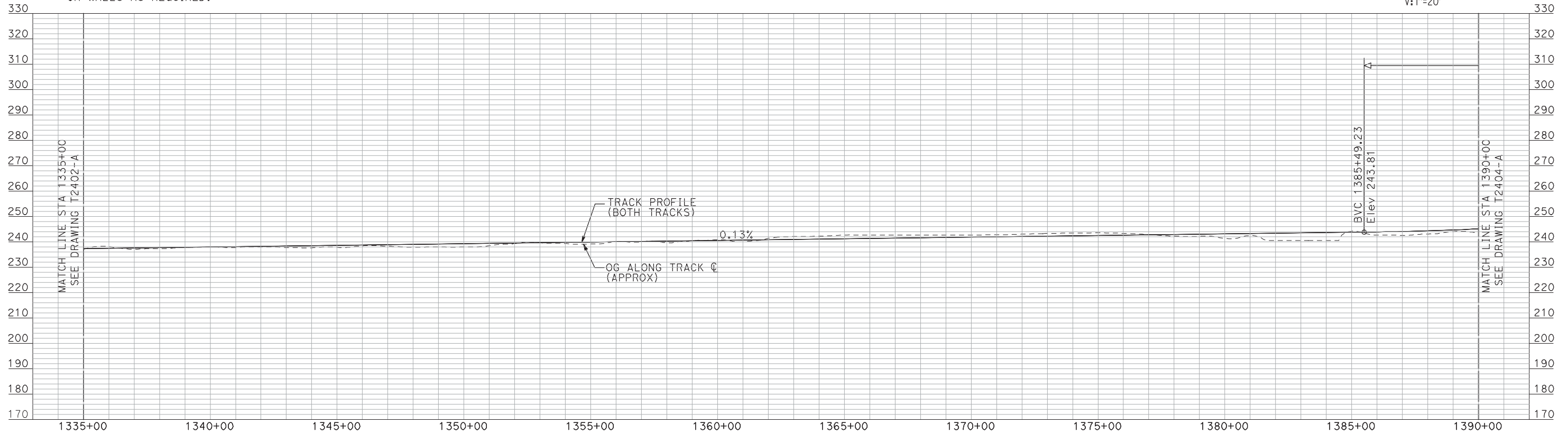
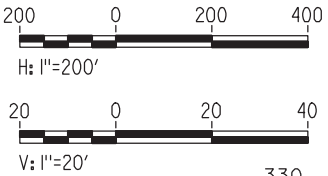
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| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

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- NOTES:
1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

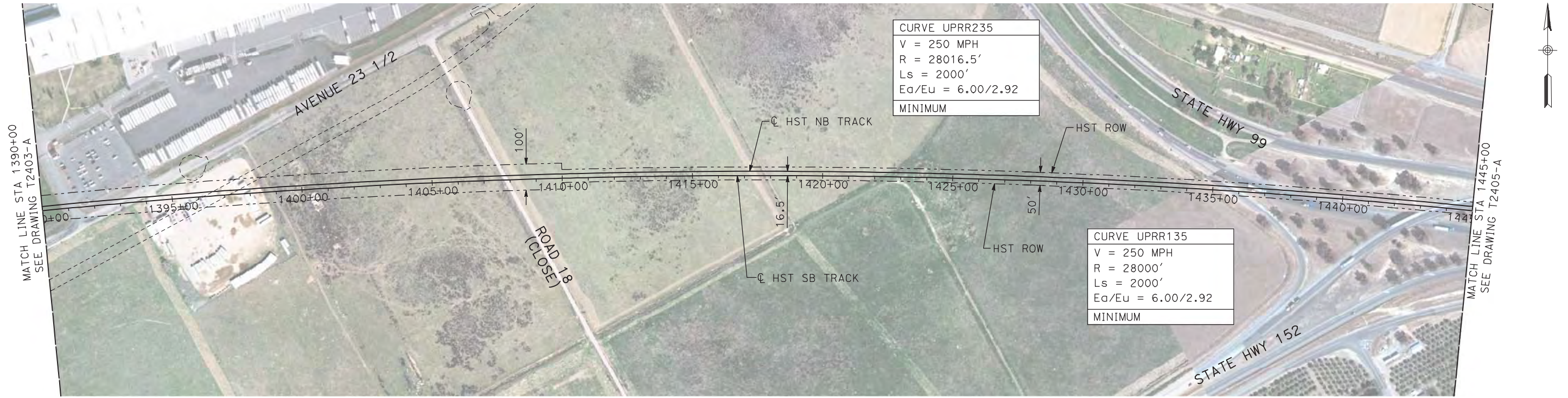


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1335+00 TO STA 1390+00

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| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

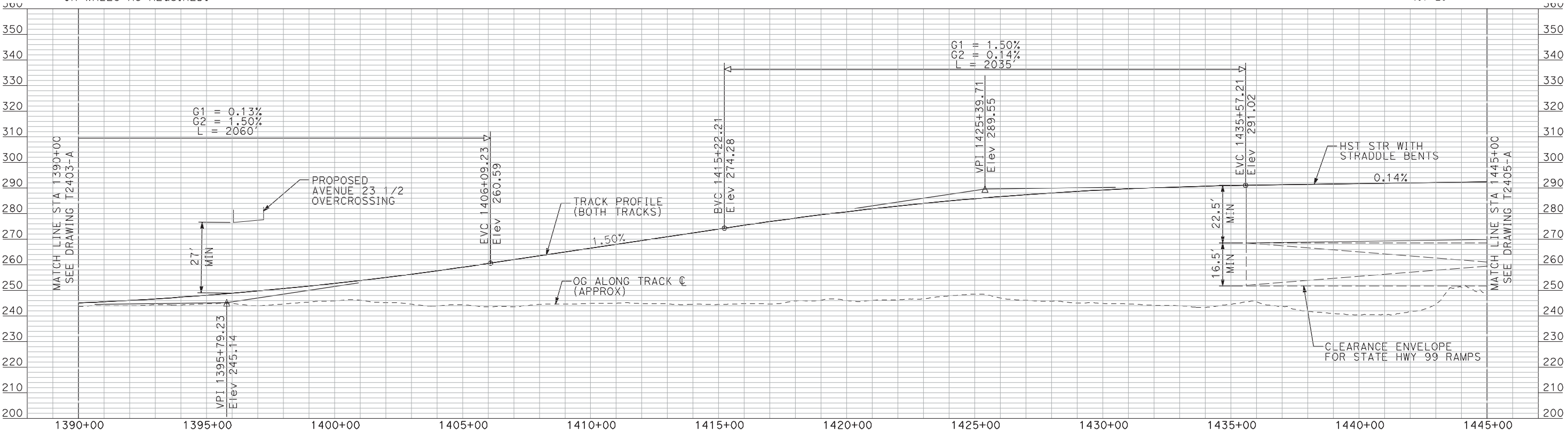
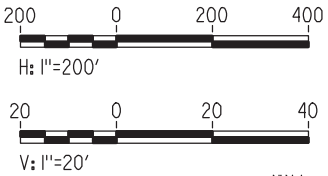
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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| RECORD SET 15% DESIGN SUBMITTAL |
| NOT FOR CONSTRUCTION |



Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811



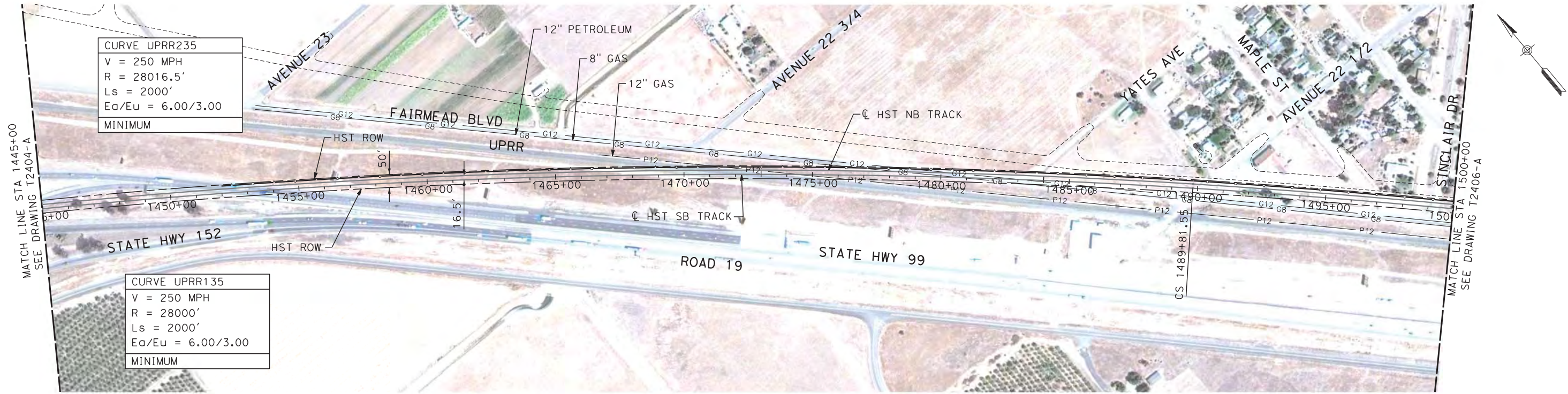


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1390+00 TO STA 1445+00

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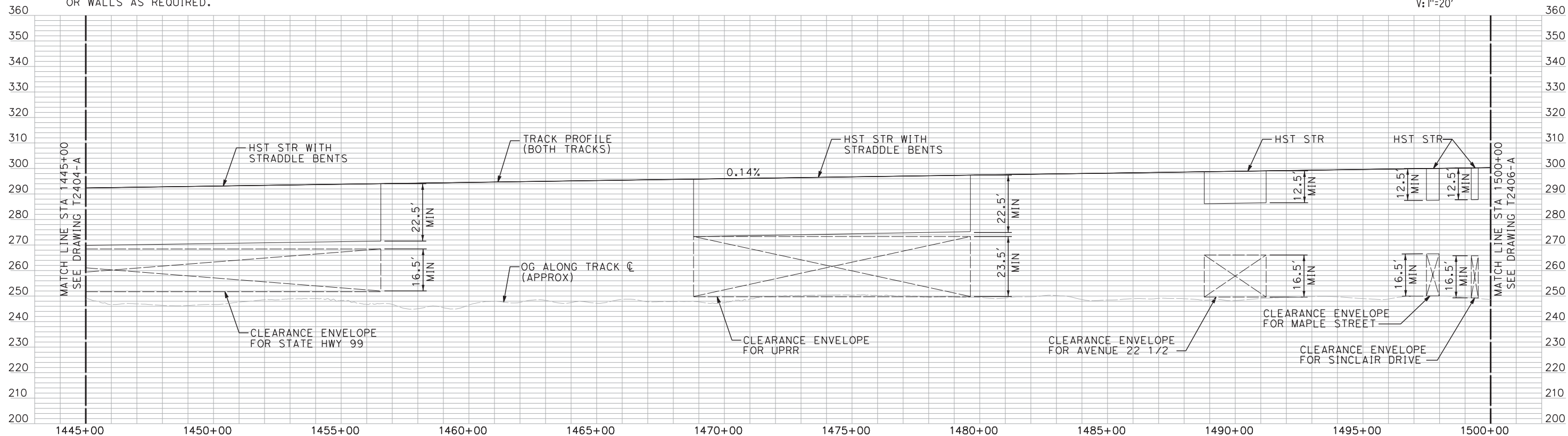
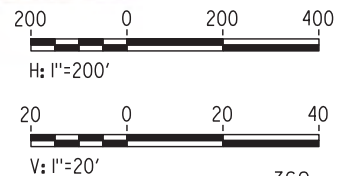
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NOTES:

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2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

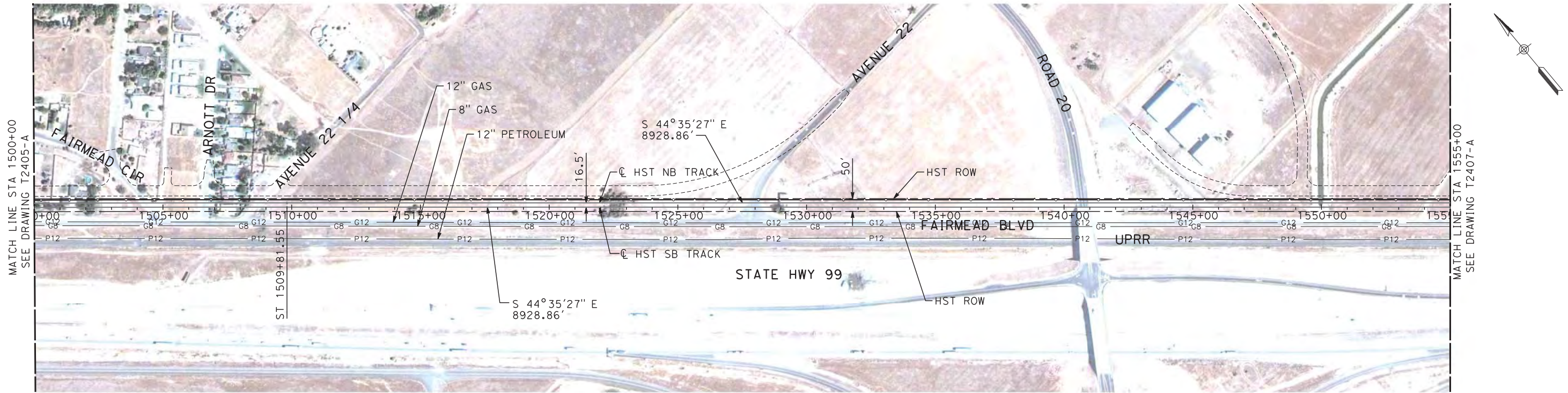
CH2MHILL



CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1445+00 TO STA 1500+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2405-A |
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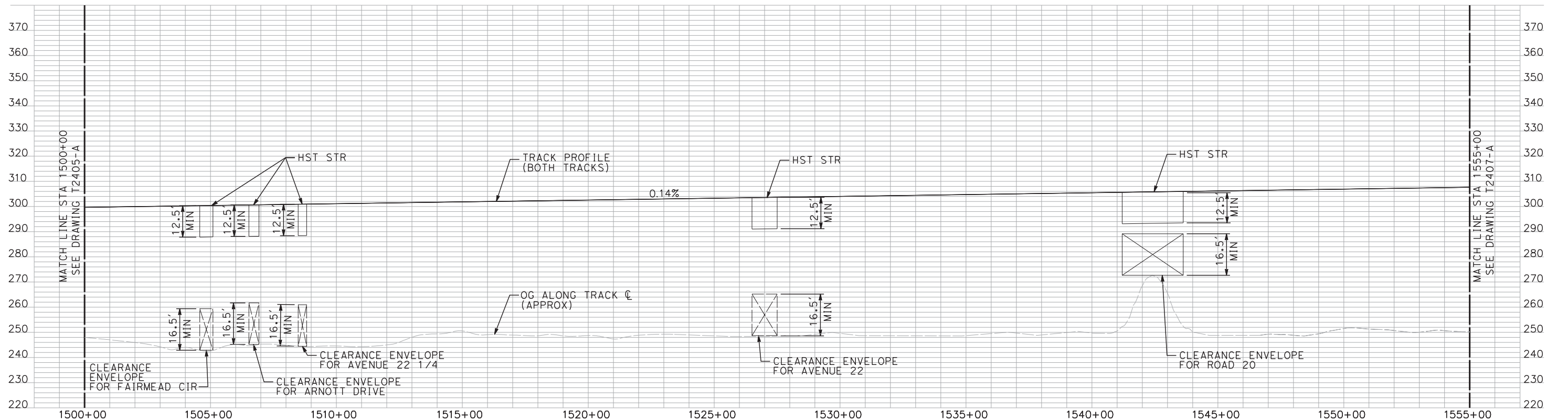
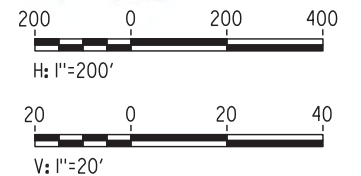
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

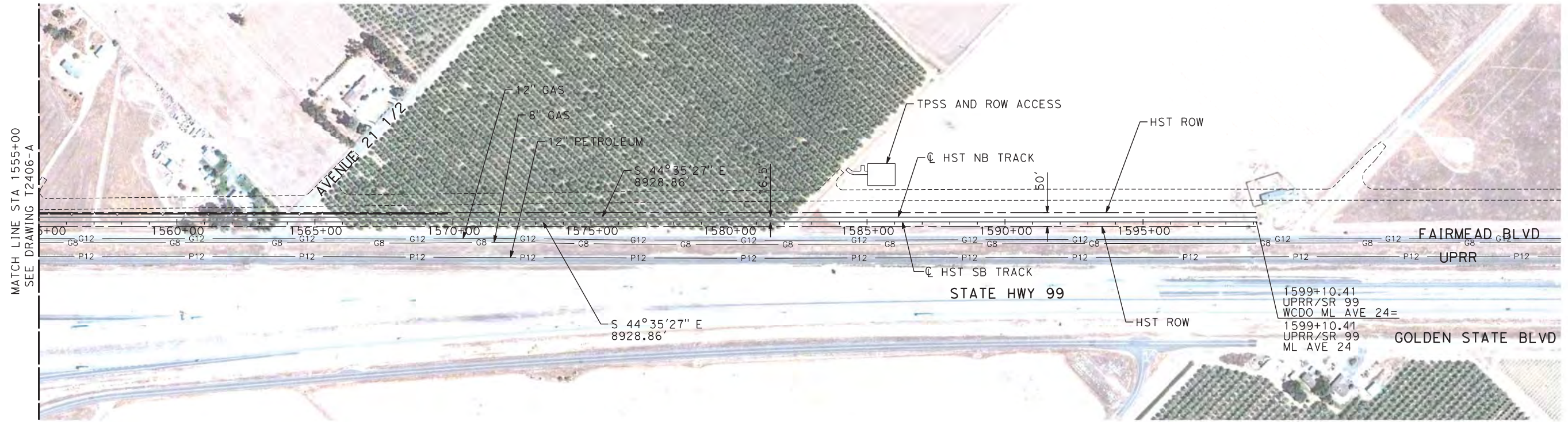
AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811
CH2MHILL



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1500+00 TO STA 1555+00

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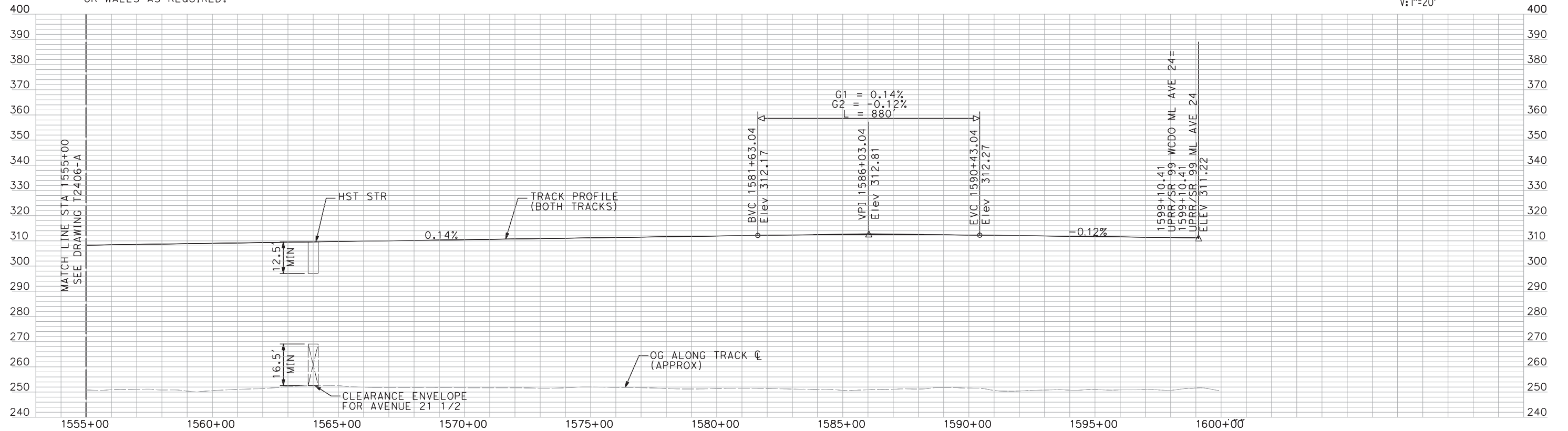
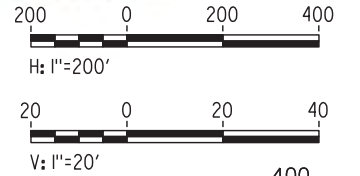
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

| REV | DATE | BY | CHK | APP | DESCRIPTION |
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| 1 | 02/17/12 | | | | NOISE BARRIER LIMITS |

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
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| DATE 07/27/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

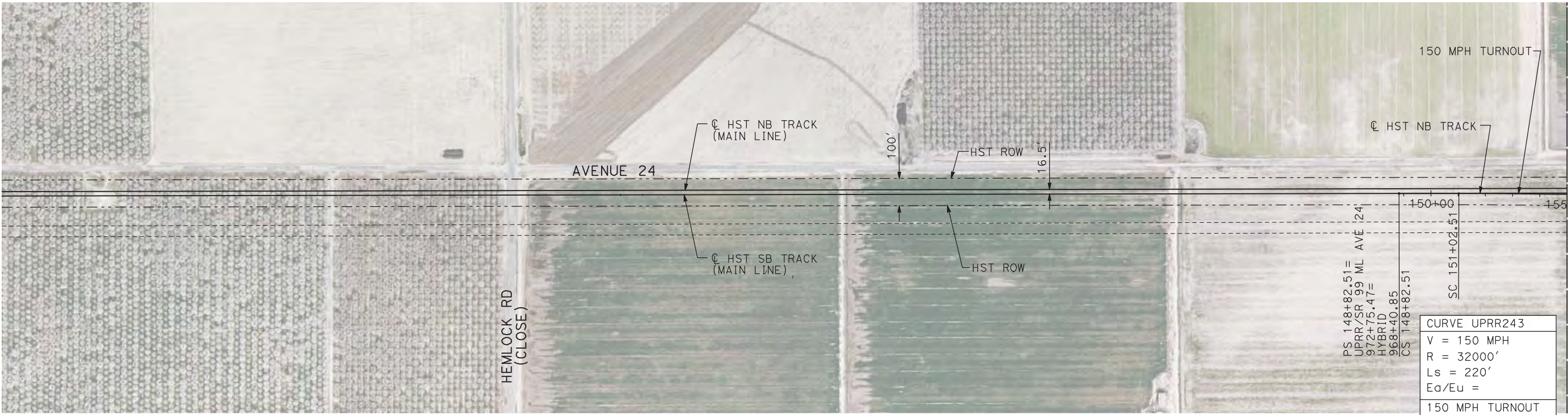
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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO - MAIN LINE
AVENUE 24
PLAN AND PROFILE
STA 1555+00 TO STA 1599+10.41

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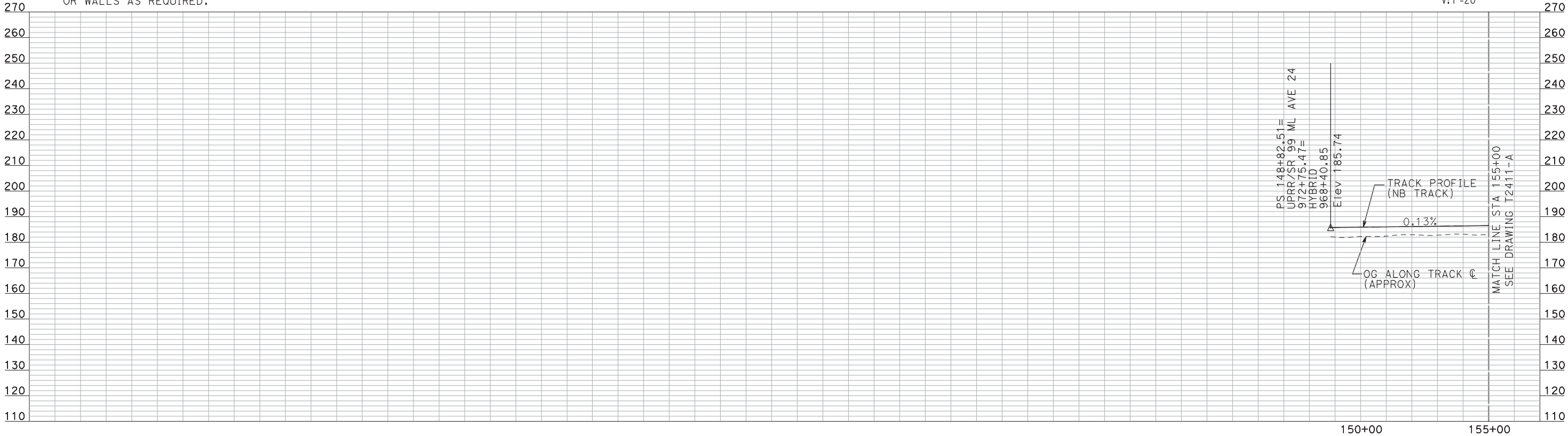
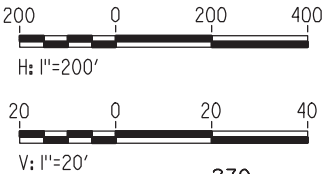
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NOTES:

1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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NOT FOR
CONSTRUCTION

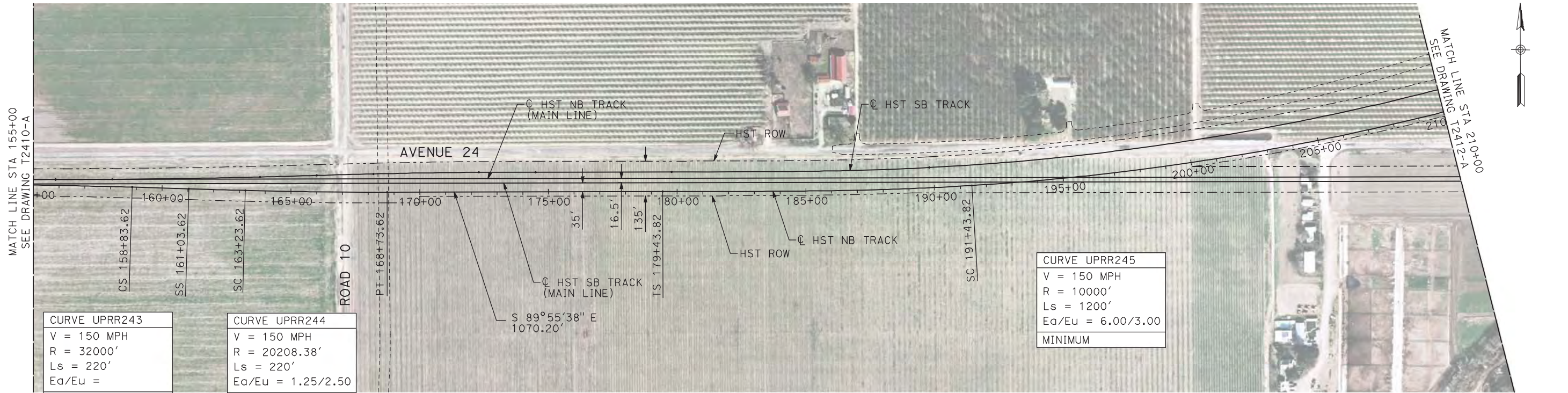


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 148+82.51 TO STA 155+00

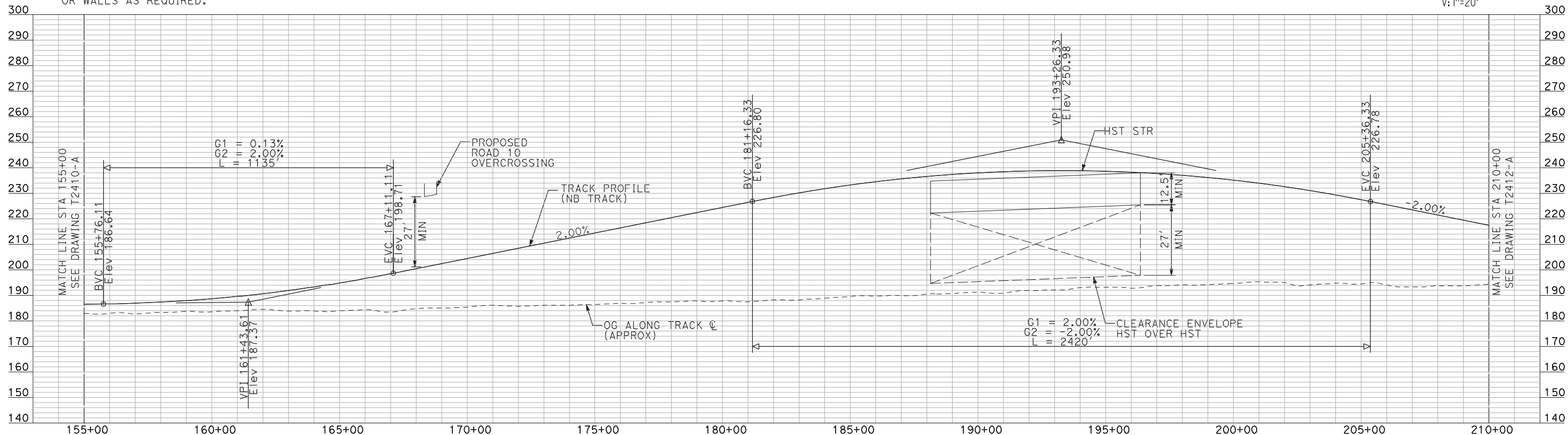
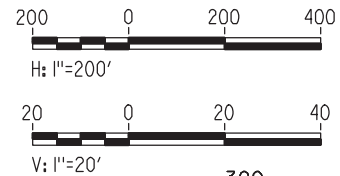
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- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 155+00 TO STA 210+00

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| CONTRACT NO. HSR06-007 |
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| SHEET NO. ### OF ### |

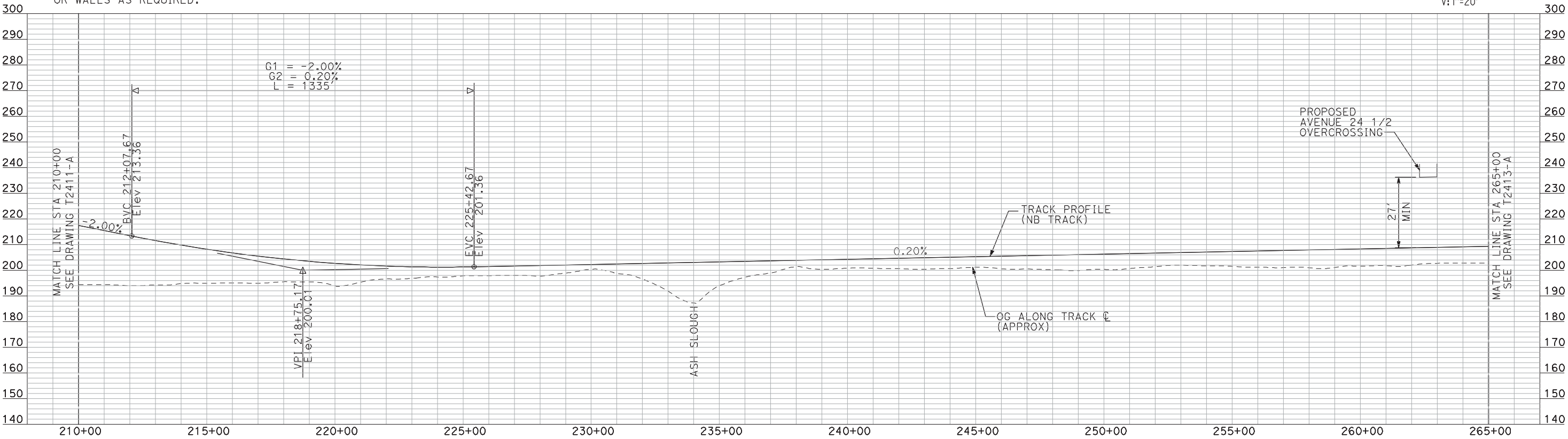
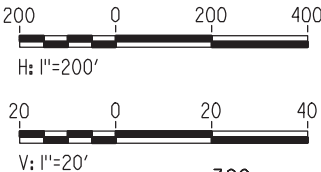
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NOTES:

- 1. ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 2. TRACKS CLOSER THAN 102 FT TO THE NEAREST EXISTING FREIGHT TRACKS WILL INCLUDE SAFETY BARRIERS, BERMS, OR WALLS AS REQUIRED.

PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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| RECORD SET 15% DESIGN SUBMITTAL |
| NOT FOR CONSTRUCTION |

Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

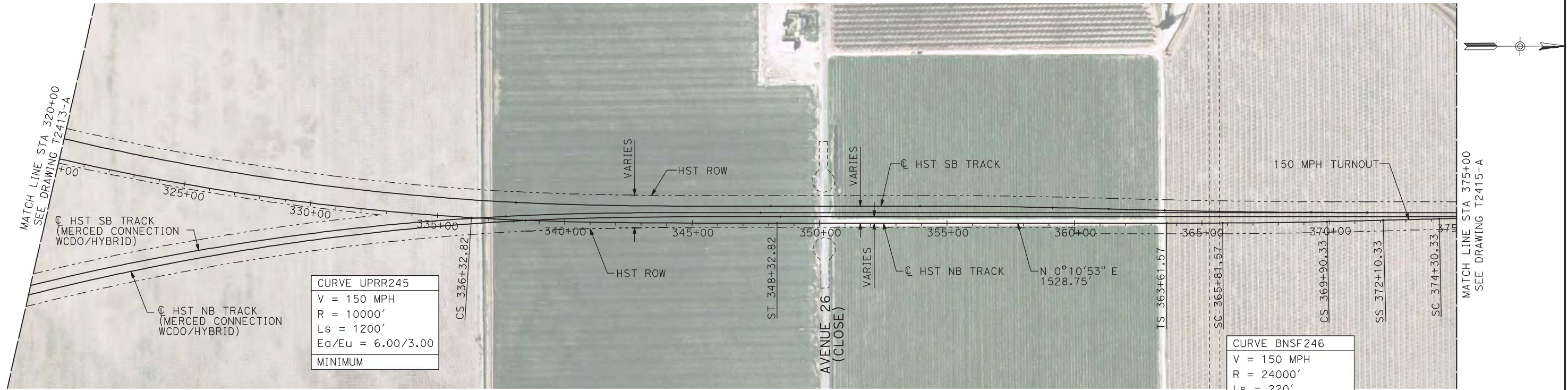
CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 210+00 TO STA 265+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2412-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

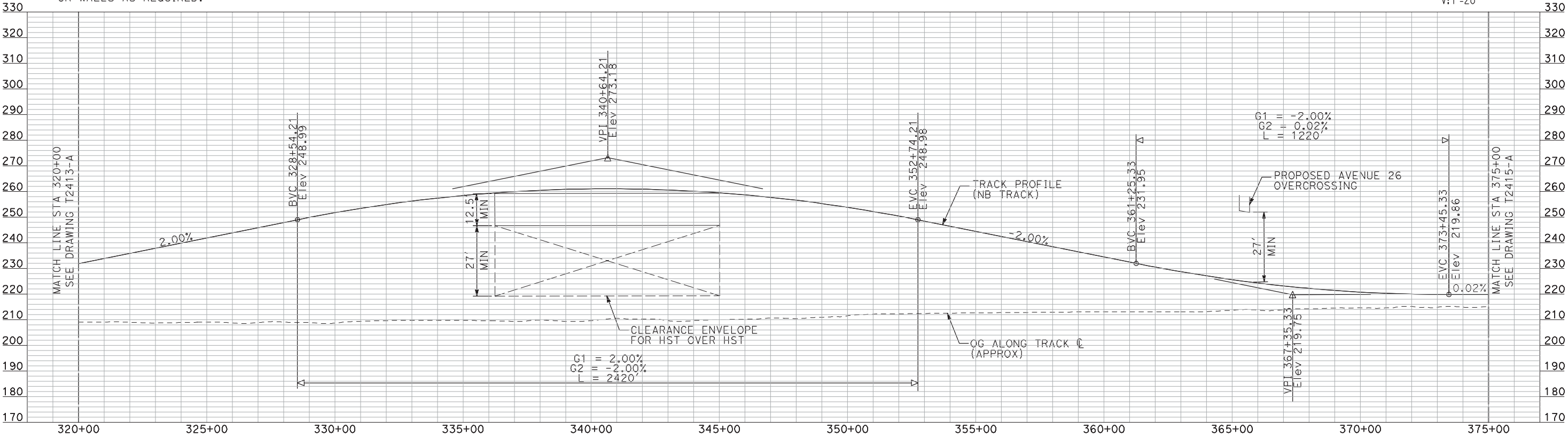
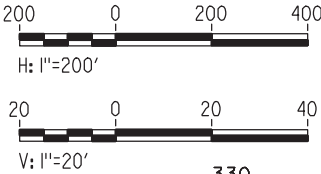
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
15% DESIGN
SUBMITTAL

NOT FOR
CONSTRUCTION

AECOM
Technical Services, Inc.
2020 L Street, Suite 300
Sacramento, CA 95811

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CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID WYE - NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 320+00 TO STA 375+00

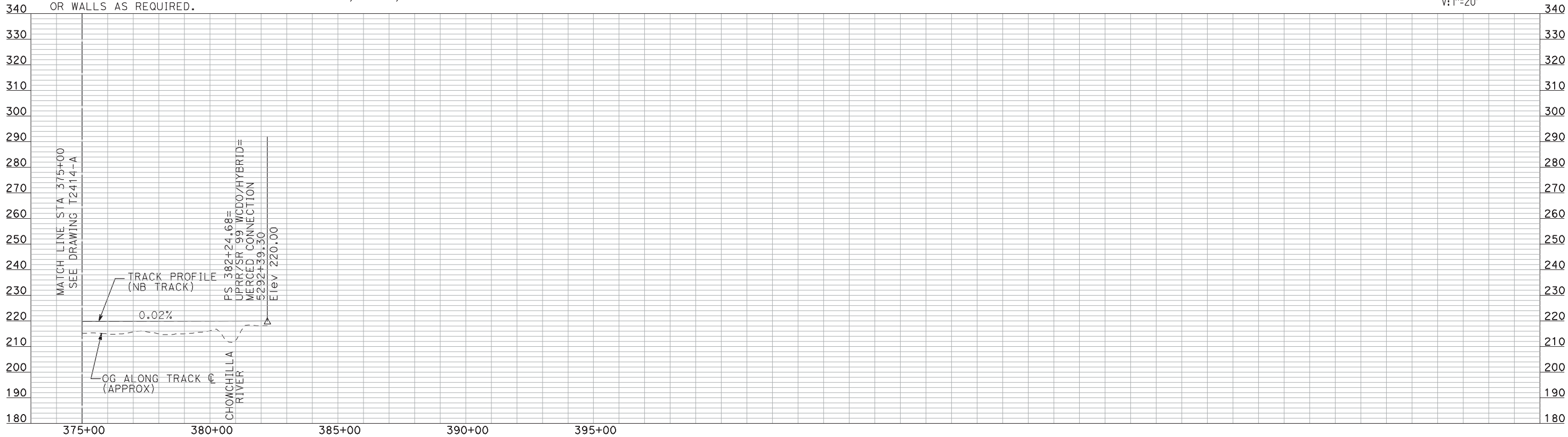
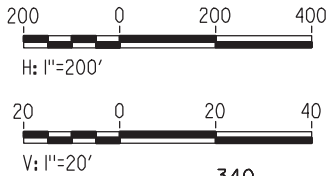
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PLAN

- NOTES:
- ALL UTILITIES SHOWN ARE EXISTING UTILITY LINES BASED ON RECORD DRAWINGS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
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PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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NOT FOR
CONSTRUCTION

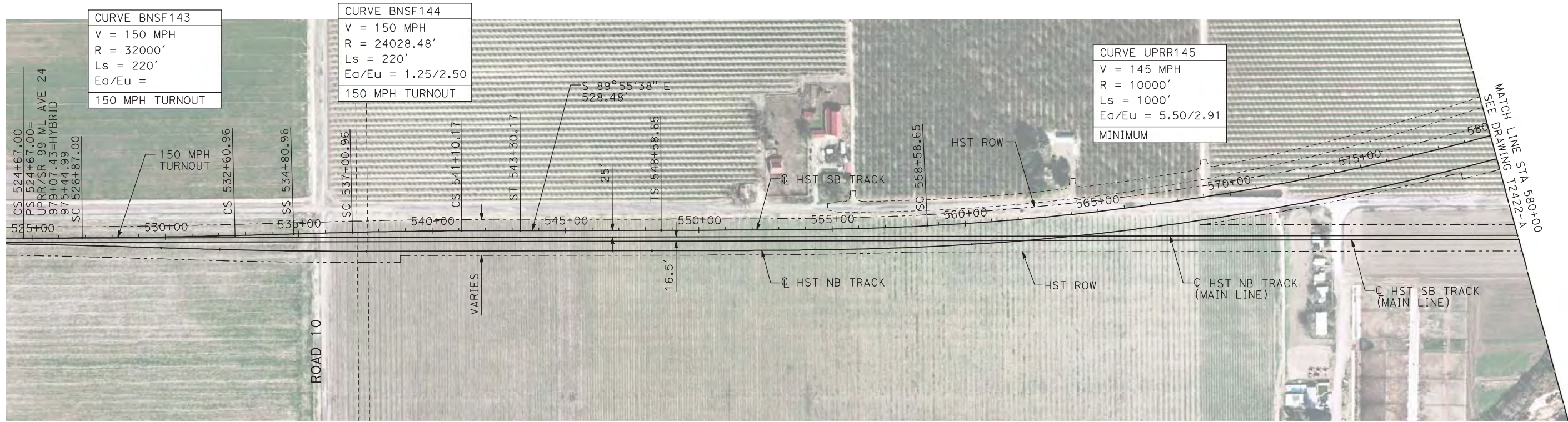


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE- NB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 375+00 TO STA 382+24.68

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2415-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |

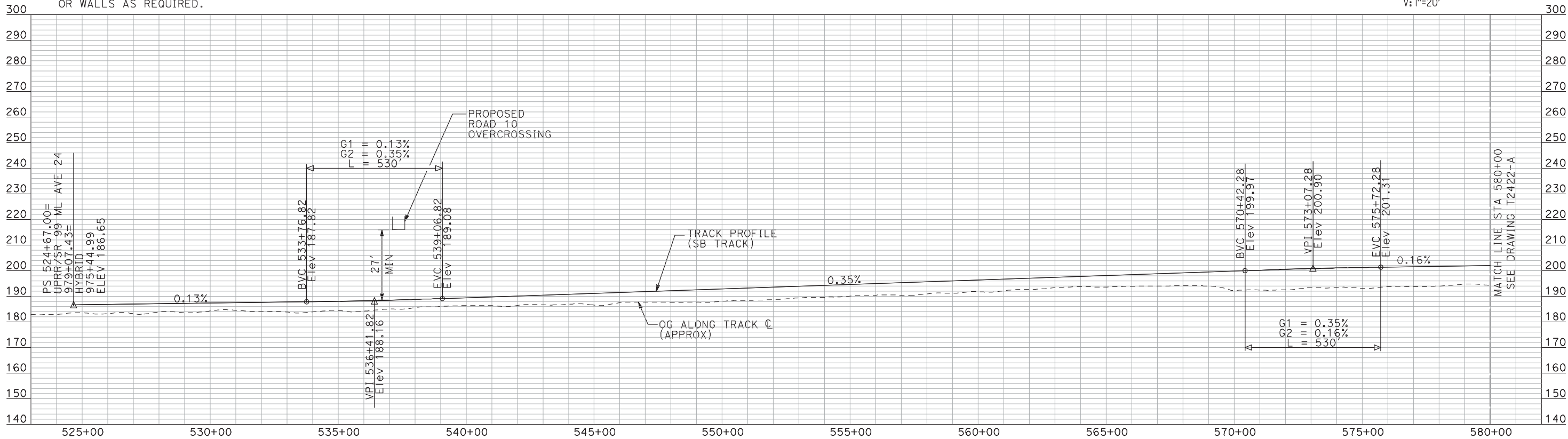
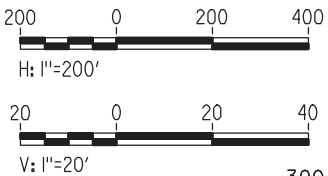
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NOTES:

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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
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| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

RECORD SET
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SUBMITTAL

NOT FOR
CONSTRUCTION

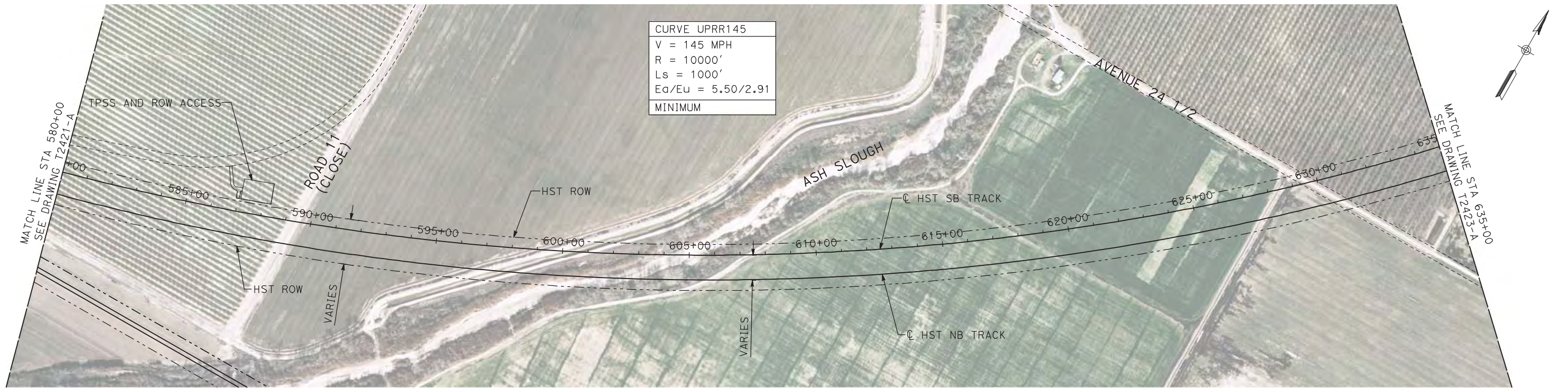


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO
UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 524+67 TO STA 580+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2421-A |
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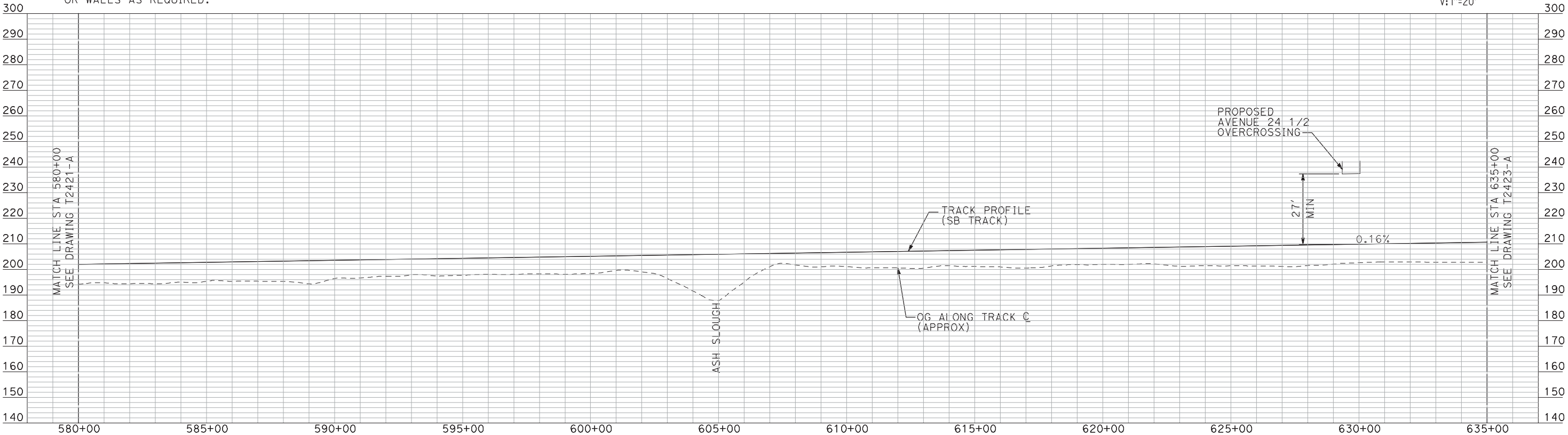
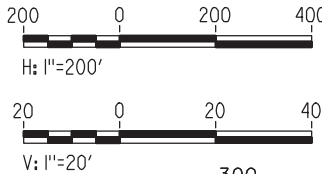
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PLAN



PROFILE

"SEE T3000-T3017 DRAWINGS FOR
TYPICAL SECTION LIMITS AND DETAILS"

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| DESIGNED BY A. SHIELDS |
| DRAWN BY H. SULLIVAN |
| CHECKED BY A. BOONE |
| IN CHARGE A. BOONE |
| DATE 07/20/2011 |

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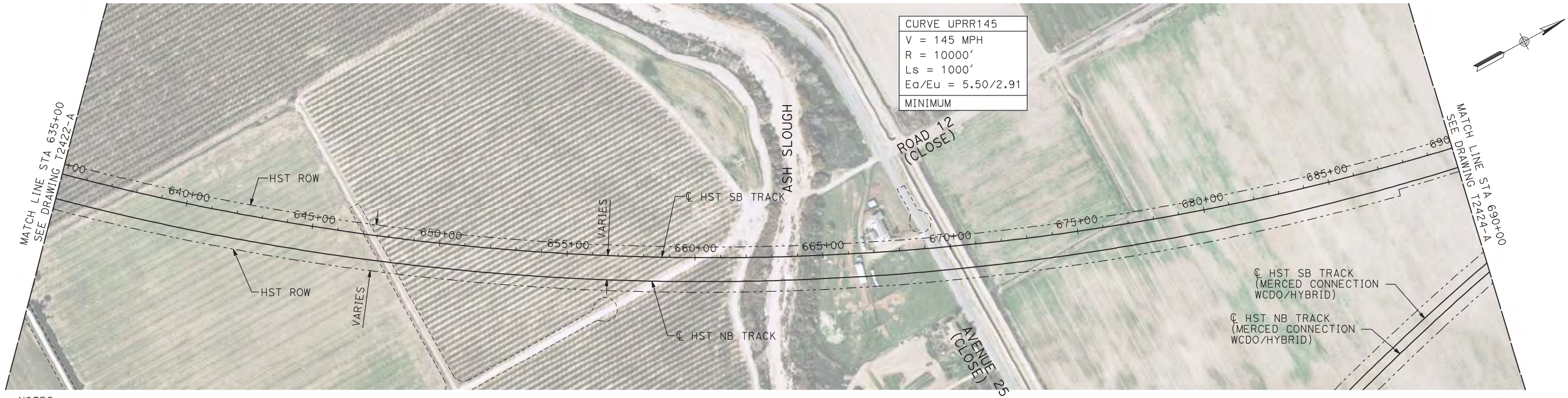


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 580+00 TO STA 635+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2422-A |
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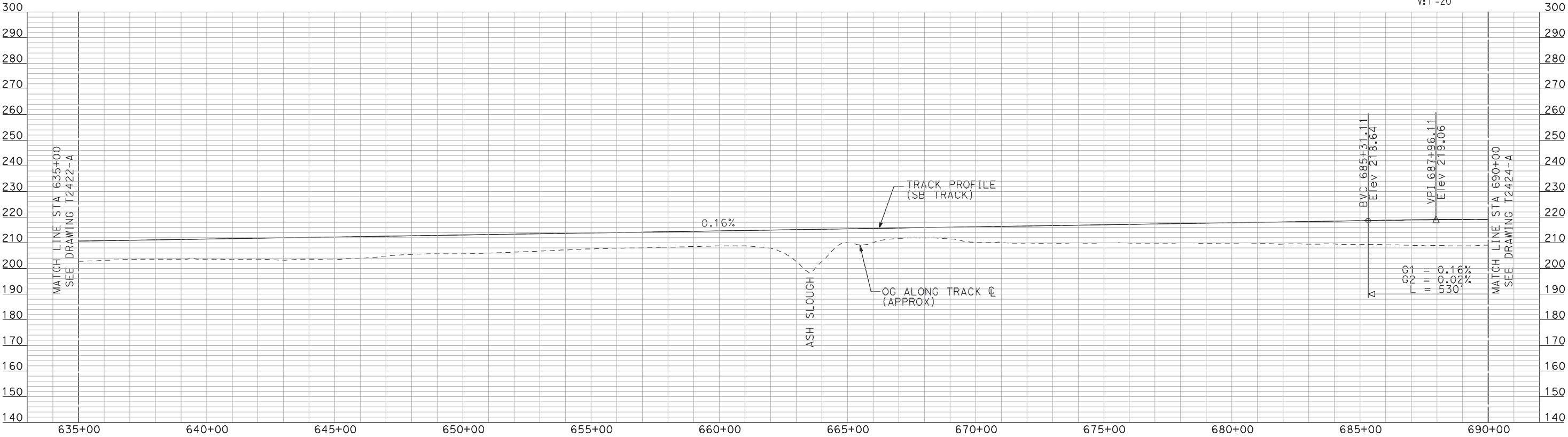
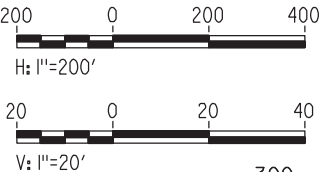
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PLAN



PROFILE

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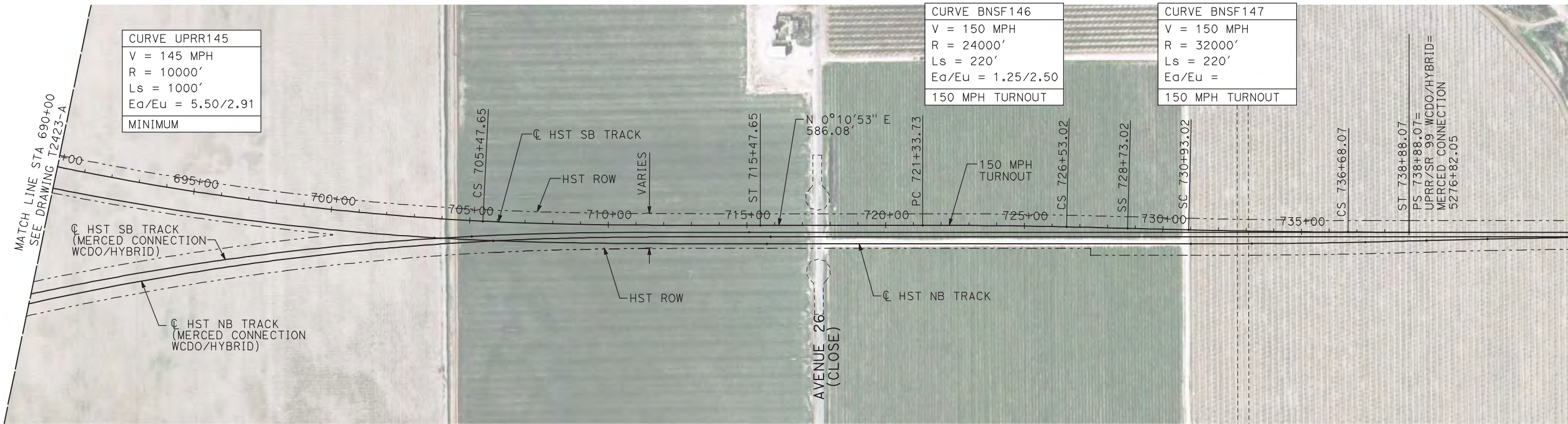
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO**
UPRR/SR 99 WCD0/HYBRID WYE - SB CONNECTION
AVENUE 24
PLAN AND PROFILE
STA 635+00 TO STA 690+00

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2423-A |
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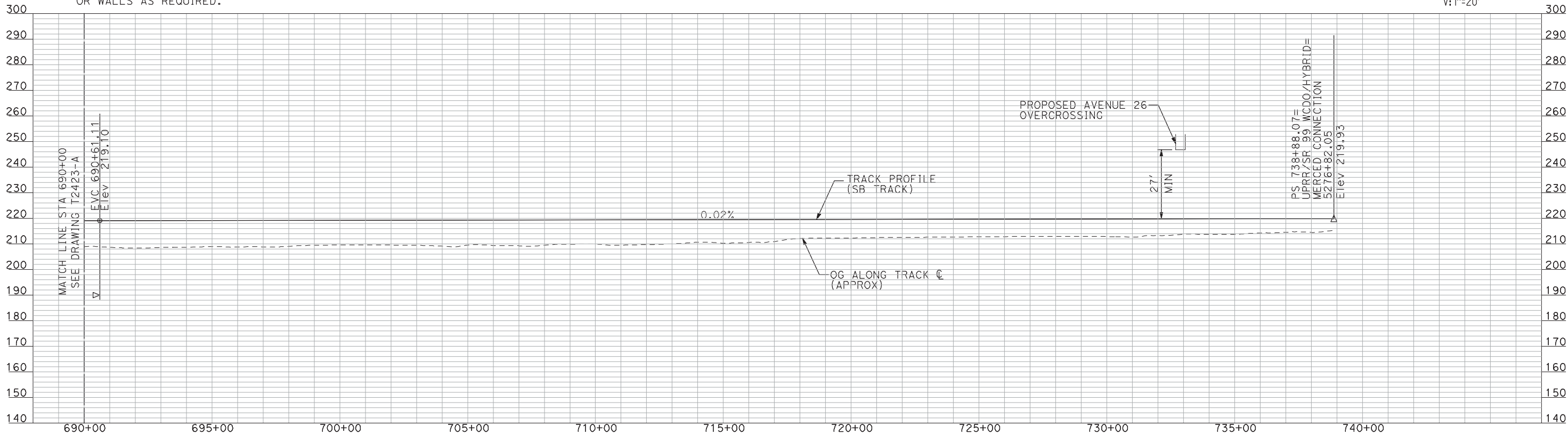
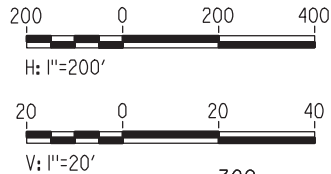
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PLAN



PROFILE

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RECORD SET
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CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
MERCED TO FRESNO

UPRR/SR 99 WCDO/HYBRID WYE - SB CONNECTION
AVENUE 24

PLAN AND PROFILE
STA 690+00 TO STA 738+88.07

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| CONTRACT NO. HSR06-007 |
| DRAWING NO. T2424-A |
| SCALE AS SHOWN |
| SHEET NO. ### OF ### |